MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Seventeenth Monthly EM&A Report (1 March to 31 March 2013)

Issue Date: April 2013

Environmental Resources Management

16/F

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The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Seventeenth Monthly EM&A Report (From 1 March to 31 March 2013)

Issue Date: April 2013 Reference 0095646

For and on behalf of				
ERM-Hong Kong, Limited				
Approved b	y: Frank Wan			
Signed:	Wardway.			
Position:	Partner			
Certified by	··· What			
	vironmental Team Leader – Winnie Ko)			
Date: _	12 April 2013			

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

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Date: 15 April 2013

By Email and Post

ERM-Hong Kong Limited, 21/F Lincoin House, 979 King's Road, Taikoo Place, Island East, Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project Verification of Monthly EM&A Report No.17

We refer to your letter dated 12 April 2013 regarding the Monthly EM&A Report No.17. Atkins China Ltd. verifies, in the capacity of Independent Environmental Checker, that the report, in principle, conforms the requirements provided in Condition 3.4 of the Environmental Permit (EP-408/2011/B).

Yours sincerely, For Atkins China Ltd.

Sharifah Or

Independent Environmental Checker

c.c. HKJC – Mr. Kenneth Lee, Rocco Design Architect – Mr. Charles Kung, By Email By Email

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EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the seventeenth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 March to 31 March 2013 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during Reporting Period

The major construction works undertaken during the reporting period include:

- Construction of bored pile wall at Old Bailey Wing;
- Ground improvement works at lower ground floor at Block 14;
- General / Furniture strip out works at Block 1, Block 11, Block 12 and Block 14;
- Demolition works at Block 1;
- Construction of new reinforced concrete slab at Block 1;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing and Block 17;
- Break up of concrete slab at Parade Ground;
- Preservation by Record at Parade Ground;
- Removal of existing roof tiles at Block 1; and
- Paint removal on timber elements at Block 1.

Environmental Monitoring and Audit Progress

A summary of the monitoring activities in this reporting period is listed below:

•	Construction noise monitoring during normal weekdays at each	
	monitoring station	5 times
•	Joint environmental site inspection	1 time
•	Heritage site inspection	1 time
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration monitoring for trial piling works	4 times
•	Vibration monitoring for pipe pile/bored pile walls piling works	96 times
•	Vibration monitoring for other construction works	72 times

Noise

5 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. No exceedance of Limit Level of construction noise was recorded during the reporting period. An exceedance of Action Level of noise (complaint received) was recorded during the reporting period.

Cultural Heritage

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 24 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 24 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 24 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 24 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 4 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 24 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 8; and
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 14.

No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audits were conducted on 5 March 2013, 7 March 2013 and 14 March 2013 during the reporting period. There was no major observation or finding during the site inspections.

The follow-up actions recommended in the last site audit have generally been implemented.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 28 March 2013 by the arborist during the reporting period. Sap flow was still observed on the midtrunk of Tree-9 and close monitoring by the Contractor was recommended.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 1,236.96 tonnes of inert C&D materials were generated during the reporting period. 230.55 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 164 kg of paper/cardboard packaging was produced and sent to recyclers for recycling. No metal, plastics waste or chemical waste was generated during the reporting period.

Environmental Site Inspection

A joint environmental site inspection was carried out by the representatives of the Contractor, the IEC and the ET on 14 March 2013. Major observations are listed below:

- A few sand bags were observed near the stormwater drain near Block 6. Some of them were observed leaking sand. The Contractor was reminded to replace the damaged sand bags or remove them if not in use;
- Green liquid substance was observed inside the drip tray for the air compressor near the chemical enhanced wastewater treatment facility.
 The Contractor was reminded to remove the unknown substance and dispose of as chemical waste, if necessary.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance of Limit Level of construction noise was recorded at designated monitoring stations during the reporting period. An exceedance of Action Level of noise (complaint received) was recorded during the reporting period. An investigation was conducted. The Contractor was recommended to conduct regular inspection of the air compressors and other machineries to ensure that they are well-maintained and operating in normal condition without generating any abnormal or excessive noise. The Contractor was also reminded that machines and plants that may be in intermittent use should be shut down if not in use or throttled down to a minimum.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

No non-compliance event was recorded during the reporting period.

One complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

- Construction of bored pile wall and foundation piles at Old Bailey Wing;
- Ground improvement works at lower ground floor at Block 14;
- General strip out works at Block 1, Block 6, Block 7, Block 10, Block 11, Block 12, Block 13, Block 14 and Block 17;
- Construction of new reinforced concrete slab at Block 1;
- Removal of existing roof tiles at Block 1;
- Underpinning works at Block 1;
- Preservation by Record at Parade Ground;
- Demolition works at Block 11 and Block 12;
- Construction of foundation pile at Arbuthnot Wing, Block 8 and Block 17;
- Structural strengthening works at Block 1;
- Trial pit excavation at Barrack Lane;
- External paint mock up at Block 4;
- External rainwater pipe removal for Block 1, Block 11 and Block 12;
- Paint removal on timber elements and interior wall at Block 1; and
- Repair works to existing timber window and door frames.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by the Jockey Club CPS Limited (the CPS Ltd) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the **Central Police Station Conservation and Revitalisation Project** (the Project).

1.1 Purpose of the Report

This is the seventeenth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 March** to **31 March 2013**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1: Introduction

details the scope and structure of the report.

Section 2: **Project Information**

summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3: Environmental Monitoring Requirements

summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the EIA report and relevant environmental requirements.

Section 4: **Implementation Status on Environmental Protection Requirements**

summarises the implementation of environmental protection measures during the reporting period.

Section 5: **Monitoring Results**

summarises the monitoring results obtained in the reporting period.

Section 6: Environmental Site Inspection

summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7: Environmental Non-conformance

summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

Section 8: Future Key Issues

summarises the impact forecast and monitoring schedule for the next reporting month.

Section 9: Conclusions

2 PROJECT INFORMATION

2.1 BACKGROUND

The Chief Executive (CE)'s 2007-2008 Policy Address highlighted revitalisation as the guiding principle of heritage conservation and the Project was one of the specific proposals put forward by the CE in the same Policy Address. At the meeting of the Executive Council (ExCo) on 15 July 2008, the ExCo advised and the CE ordered that Government should enter into a partnership with the Hong Kong Jockey Club (HKJC) in the form of an agreement (or agreements) to take forward the conservation and revitalisation of the CPS project based on various guiding parameters. The Project is now being undertaken in partnership with the Development Bureau of the HKSAR Government. The HKJC has taken on board the decision at the ExCo meeting and further investigated the design and implementation of the Project. The Project is now implemented by the Jockey Club CPS Limited.

2.2 SITE DESCRIPTION

The location of the Project Site is shown in *Annex A1*. The Site is bounded by Hollywood Road to the north, Arbuthnot Road to the east, Chancery Lane to the south and Old Bailey Street to the west.

The Site comprises three Declared Monuments designated under the *Antiquities and Monuments Ordinance* in 1995. They are:

- Central Police Station;
- Former Central Magistracy; and
- Victoria Prison Compound.

They are collectively named the Central Police Station (CPS). *Annex A2* shows the location of the Declared Monuments within CPS and the buildings within the CPS.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in *Table 2.1* and illustrated in *Annex A3*.

Table 2.1 Summary of Construction Activities Undertaken from 1 March to 31 March 2013

Construction Activities Undertaken

- Construction of bored pile wall at Old Bailey Wing;
- Ground improvement works at lower ground floor at Block 14;
- General / Furniture strip out works at Block 1, Block 11, Block 12 and Block 14;
- Demolition works at Block 1;
- Construction of new reinforced concrete slab at Block 1;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing and Block 17;
- Break up of concrete slab at Parade Ground;
- Preservation by Record at Parade Ground;
- Removal of existing roof tiles at Block 1; and
- Paint removal on timber elements at Block 1.

2.4 PROJECT ORGANISATION

The Project organisation chart and contact details are shown in *Annex B*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP in April 2011 is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	Superseded on 10 January 2012
	EP-408/2011/A	-	Superseded on 22 March 2012
_	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under <i>Air</i> Pollution Control (Construction Dust) Regulation	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under Waste Disposal Ordinance	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Effluent Discharge License under Water Pollution Control Ordinance	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-
Notification of Commencement of	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Asbestos Abatement Work under Air Pollution Control Ordinance			EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012	EPD's letter (EPD's ref:() in EPAC/A/4/000/23 3) dated 18 January 2012.
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	Expired.
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.
	GW-RS1162-12	1 December 2012 at 0000 hours to 28 March 2013 at 0600 hours	Expired.
	GW-RS1301-12	2 January 2013 at 1900 hours to 29 June 2013 at 2300 hours	-
	GW-RS0084-13	24 January 2013 at 1900 hours to 29 June 2013 at 0700 hours	-
	GW-RS0113-13	1 February 2013 at 0200 hours to 31 May 2013 at 0400 hours	-

3

3.1 Noise Monitoring

3.1.1 Monitoring Location

The construction noise monitoring locations are listed in *Table 3.1* and are shown in *Annex C*.

Table 3.1 Construction Phase Noise Monitoring Station

Monitoring Location	Proposed Construction Noise Monitoring Station			
	ID in EM&A Manual	ID	Type of Measurement	Remark
Rooftop of Ho Fook Building	N2	NM2	Façade	-
Rooftop of Chancery Mansion		NM6	Façade	Accesses to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), were denied; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD.

The noise sensitive receivers are also shown in *Annex C*.

3.1.2 Monitoring Parameters, Frequency and Programme

Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual. The monitoring programme for this reporting period is shown in *Annex D*.

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level (L_{eq}) in decibels dB(A). $L_{eq~(30min)}$ were used as the monitoring parameter for the time period in between 0700 – 1900 hours on normal weekdays. Supplementary information for data auditing, two statistical sound levels L_{10} and L_{90} - the levels exceeded for 10 and 90 percent of the time respectively, were also recorded during the monitoring for reference. The measured noise levels were logged in every 5 minutes throughout the impact monitoring period.

3.1.3 Monitoring Equipment and Methodology

Construction noise measurements were conducted in accordance with the calibration and measurement procedures as stated in *Annex – General Calibration and Measurement Procedures* of *Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM)* issued under the *Noise Control Ordinance (NCO)* (Cap 400).

The sound level meters and calibrator used for the noise measurement, as listed in *Table 3.2*, complies with the IEC 651: 1979 and 804:1985 (Type 1) specifications. The calibration certificates of the sound level meters are appended in *Annex E*.

Table 3.2 Noise Monitoring Equipment

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10786708; S/N 10997142)
	Sound Level Meter
	Rion NL-31 (S/N 00603867)

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency.

Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 dB(A).

3.1.4 Event / Action Plan

Table 3.3 Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring Location	Action Level	Limit Level, L _{eq(30mins), dB(A)}	Remark
NM2, NM6	When one documented complaint is received from any one of the sensitive receivers	75 (note)	Applicable during 0700 – 1900 hours on normal weekdays.

Notes:

- a) Acceptable Noise Levels for Area Sensitivity Rating of A/B/C. Limit Level is reduced to 70dB(A) for schools and 65dB(A) during school examination periods.
- b) If works are to be carried out during restricted hours, the conditions stipulated in the CNP issued by the NCA have to be followed.

The Event / Action Plan (EAP) for noise monitoring is presented in *Annex F*.

3.1.5 Mitigation Measures

The mitigation measures in accordance with the EP, EIA and EM&A Manual and their implementation status are presented in *Annex G*.

3.2 CULTURAL HERITAGE

3.2.1 Vibration Monitoring

In accordance with the EM&A Manual, vibration monitoring is required and the vibration control limits and vibration monitoring proposal are defined by a specialist for AMO's approval.

A set of initial readings should be recorded prior to commencement of each stage of demolition works or trial piling works. The baseline vibration monitoring should be conducted for duration of 5 minutes on the measurement day(s) at each vibration monitoring location.

Vibration Monitoring for Demolition Works

There are five phases/stages of vibration monitoring to be carried out for demolition works, namely Initial Reading Phase, Monitoring Stage 1, Monitoring Stage 2, Monitoring Stage 3 and Monitoring Stage 4. The monitoring location is shown in *Annex L*. The vibration monitoring should be conducted for duration of 5 minutes on the days with demolition works at each vibration monitoring location.

Vibration Monitoring for Trial Piling and Pipe/Bored Piling Works

Vibration monitoring for trial piling works and pipe/bored piling works is required. The monitoring location is shown in *Annex L*. The vibration monitoring should be conducted for duration of 5 minutes on the days with trial piling works or pipe/bored piling works at each vibration monitoring location.

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than demolition works, trial piling works and pipe/bored piling works is also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex M*. The number and location of monitoring location will depend on the location of the specific construction works. The vibration monitoring should be conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location.

Alert, Alarm and Action Levels

The Alert, Alarm and Action (AAA) Levels are to be implemented during the vibration monitoring and shown in *Table 3.4*.

Table 3.4 Alert, Alarm and Action (AAA) Levels for Vibration Monitoring

Instrument Type	Item Monitored	Alert Level	Alarm Level	Action Level
Vibration	Horizontal	2.0 mm/s	2.5 mm/s	3.0 mm/s
Monitoring	Movement			

The Event / Action Plan (EAP) for vibration monitoring is shown in *Table 3.5*.

Table 3.5 Event and Action Plan for Vibration Monitoring

Events	Action
Exceedance of Alert Level	Notify Management Contractor
Exceedance of Alarm Level	Notify Authorised Person/Resident Engineer
Exceedance of Action Level	Cease Works and submit mitigation

3.2.2 Mitigation Measures

Cultural heritage mitigation measures (including those for archaeology) in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

3.3 LANDSCAPE AND VISUAL MONITORING

In accordance with the EM&A Manual, inspections of affected trees were conducted by an experienced and appropriately trained arborist. All irregularities that deviate from the recommended tree protection measures or could impose deleterious impacts on the protected trees were reported. Besides, implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were also monitored during the site inspection.

3.3.1 Mitigation Measures

Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

3.4 Environmental Requirements in Contract Documents

The environmental requirements as specified in the contract documents were reviewed and were covered in the EIA's requirements.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has generally implemented the environmental mitigation measures (including those for archaeology) and requirements as stated in the EIA Report, the EP and EM&A Manual and the contract documents. The implementation status during the reporting period is summarized in *Annex G*.

Status of required submissions under the EP during the reporting period is presented in *Table 4.1*.

Table 4.1 Status of Required Submissions

Submission		Submission Date
EP Condition		
Condition 3.4	Sixteenth Monthly EM&A Report	14 March 2013

MONITORING RESULTS

5.1 Noise

5

A total of 5 sets of 30-minute construction noise measurements were carried out at the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex H*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

- NM2: construction noise from activities in the Project Site and traffic noise from Old Bailey Street.
- NM6: construction noise from activities in the Project Site and traffic noise from Chancery Lane.

No exceedance of Limit Level of construction noise was recorded during the reporting period. An exceedance of Action Level of noise (complaint received) was recorded during the reporting period. An investigation was carried out and findings are presented in *Section 7.4*.

5.2 CULTURAL HERITAGE

5.2.1 Vibration Monitoring

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 24 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 24 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 24 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 24 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 4 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

The monitoring results are presented in *Annex L*.

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 24 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 8; and
- 24 vibration monitoring measurements for the structural addition and alteration works at Block 14.

The monitoring results are presented in *Annex M*.

All monitoring results were below the Alert/Alarm/Action Levels.

5.2.2 Heritage Site Audit

Heritage site audits were conducted on 5 March 2013, 7 March 2013 and 14 March 2013 by the Heritage Checker during the reporting period. There was no major observation or finding during the site inspections.

The follow-up actions recommended in the last site audit have generally been implemented.

5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 28 March 2013 and major observations and recommendations in the reporting period are summarised in *Table 5.1*. The tree inspection report is contained in *Annex J*.

Table 5.1 Findings of Monthly Tree Inspection in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observations / Recommendations	
Tree -5	Mangifera indica	Good	No further action required.	
Tree -6	Aleurites moluccana	Fair	No further action required.	
Tree-7	Aleurites moluccana	Fair	 No further action required. 	
Tree-8	Plumeria rubra	Fair	 No further action required. 	
Tree-9	Araucaria cunninghamia	Fair	 Sap flow was still observed on the mid-trunk. Close monitoring is recommended. 	
Tree-11	Dracaena marginata	Fair	No further action required.	

5.4 WASTE MANAGEMENT

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials

were made up of wastes such as general refuse. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in *Table 5.2*. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 164 kg of paper/cardboard packaging was generated and sent to recyclers for recycling. No metal, plastics waste or chemical waste was generated during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

Month / Year				Quantity	7		
	C&D Materials	C&D Materials	Chemical Waste		Recycled materials		rials
	(inert) (a)	(non-inert)	Solid Liquid	Paper / cardboard	Plastics	Metals	
March 2013	1,236.96 tonnes	230.55 tonnes	0 kg	0 L	164 kg	0 kg	0 kg

Notes:

- (a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.
- (b) The figure presented under non-inert C&D materials represents quantities of non-recyclable materials such as general refuse which were disposed of at SENT Landfill. Recycled materials are reported separately.

6 ENVIRONMENTAL SITE INSPECTION

Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 14 March 2013. There was no non-compliance recorded during the site inspection.

Follow-up Actions for the Last Site Audit

• The stockpile of concrete debris in Block 17 has been removed.

Observations and Recommendations of this Reporting Month

- A few sand bags were observed near the stormwater drain near Block 6.
 Some of them were observed leaking sand. The Contractor was reminded to replace the damaged sand bags or remove them if not in use;
- Green liquid substance was observed inside the drip tray for the air compressor near the chemical enhanced wastewater treatment facility. The Contractor was reminded to remove the unknown substance and dispose of as chemical waste, if necessary.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF MONITORING EXCEEDANCE

No exceedance of Limit Level of construction noise or Alert, Alarm and Action Levels of vibration was recorded during the reporting period. An exceedance of Action Level of noise (complaint received) was recorded during the reporting period.

7.2 SUMMARY OF ENQUIRY

No enquiry was recorded during the reporting period.

7.3 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was recorded during the reporting period.

7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

One complaint was received during the reporting period. A complaint about noise was received by the Environmental Protection Department (EPD) and transferred to Gammon Construction Limited (GCL) on 28 March 2013.

Table 7.1 Summary of Complaints Received

Date of Complaint Received by the Contractor	Means by which complaint was received	Nature of complaint
28 March 2013	EPD	Noise nuisance

On 28 March 2013 at 1530 hours, GCL received a complaint on noise nuisance transferred by the EPD. The complainant, a neighbourhood resident from Chancery Lane, mentioned that noise nuisance of low frequency was generated from the CPS construction site. The exact time of occurrence of the noise nuisance or its duration was not provided. According to a photo of the CPS construction site taken by the EPD from the location of the complainant, a number of air compressors were observed, which could be the potential source of the mentioned noise nuisance. According to the information provided by the Contractor, there were three air compressors near Block 14 and two air compressors near Block 17, which were only operating during The air compressor in the open area near Block 14 was provided with noise barriers on the sides. Furthermore, recent noise monitoring was conducted at the rooftop of Chancery Mansion along the Chancery Lane on 27 March 2013 during which the air compressors were operating. The noise levels at the monitoring location showed compliance with the construction noise standards.

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor was recommended to conduct regular inspection of the air compressors and other machineries to ensure that they are well-maintained and operating in normal condition without generating any abnormal or excessive noise. The Contractor was also reminded that machines and plants that may be in intermittent use should be shut down if not in use or throttled down to a minimum.

The Complaint Investigation Report and the cumulative number of complaints are presented in *Annex K*.

7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons was received during the reporting period.

FUTURE KEY ISSUES

8

8.1 KEY ISSUES FOR THE COMING MONTH

Works to be undertaken for the coming monitoring period are summarised in *Table 8.1*.

Table 8.1 Construction Works to be Undertaken in the Coming Month

Work to be Undertaken

- Construction of bored pile wall and foundation piles at Old Bailey Wing;
- Ground improvement works at lower ground floor at Block 14;
- General strip out works at Block 1, Block 6, Block 7, Block 10, Block 11, Block 12, Block 13, Block 14 and Block 17;
- Construction of new reinforced concrete slab at Block 1;
- Removal of existing roof tiles at Block 1;
- Underpinning works at Block 1;
- Preservation by Record at Parade Ground;
- Demolition works at Block 11 and Block 12;
- Construction of foundation pile at Arbuthnot Wing, Block 8 and Block 17;
- Structural strengthening works at Block 1;
- Trial pit excavation at Barrack Lane;
- External paint mock up at Block 4;
- External rainwater pipe removal for Block 1, Block 11 and Block 12;
- Paint removal on timber elements and interior wall at Block 1; and
- Repair works to existing timber window and door frames.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

8.2 MONITORING SCHEDULE FOR THE NEXT MONTH

The tentative schedule of noise monitoring for the next reporting period is presented in *Annex D*.

8.3 CONSTRUCTION PROGRAMME FOR THE NEXT MONTH

The most updated construction programme for the Project is presented in *Annex I*.

9 CONCLUSIONS

The *Environmental Monitoring and Audit (EM&A) Report* presents the EM&A works undertaken during the period from 1 March to 31 March 2013 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

No exceedance of Limit Level of construction noise was recorded at designated monitoring stations during the reporting period. An exceedance of Action Level of noise (complaint received) was recorded during the reporting period. An investigation was conducted. The Contractor was recommended to conduct regular inspection of the air compressors and other machineries to ensure that they are well-maintained and operating in normal condition without generating any abnormal or excessive noise. The Contractor was also reminded that machines and plants that may be in intermittent use should be shut down if not in use or throttled down to a minimum.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

No non-compliance event was recorded during the reporting period.

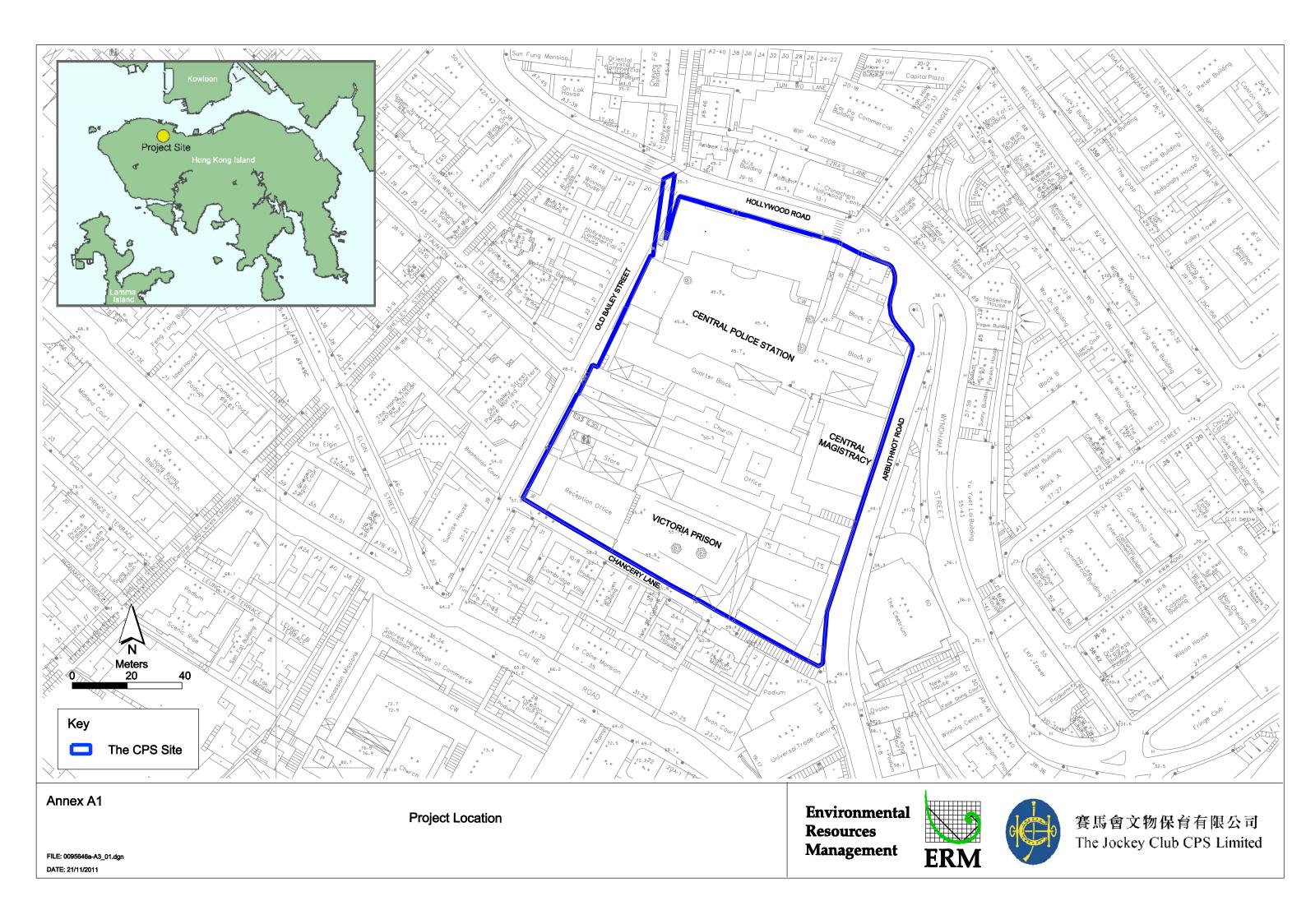
One complaint was received during the reporting period.

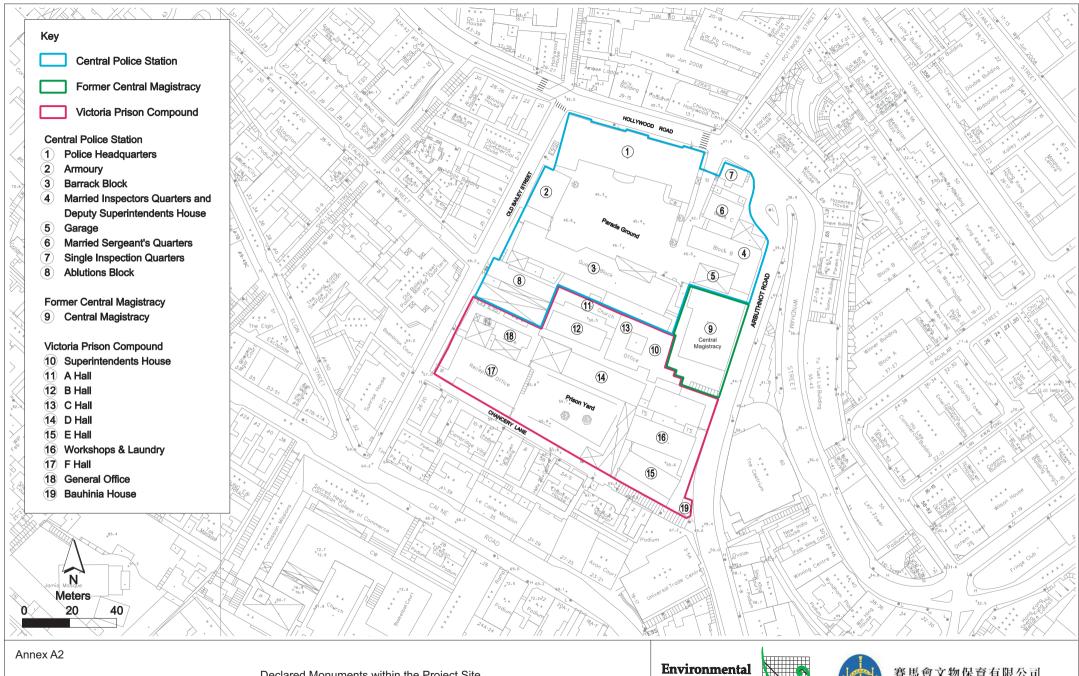
No summons/prosecution was received during the reporting period.

The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Annex A

Location of Works Areas and the Surroundings



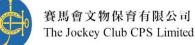


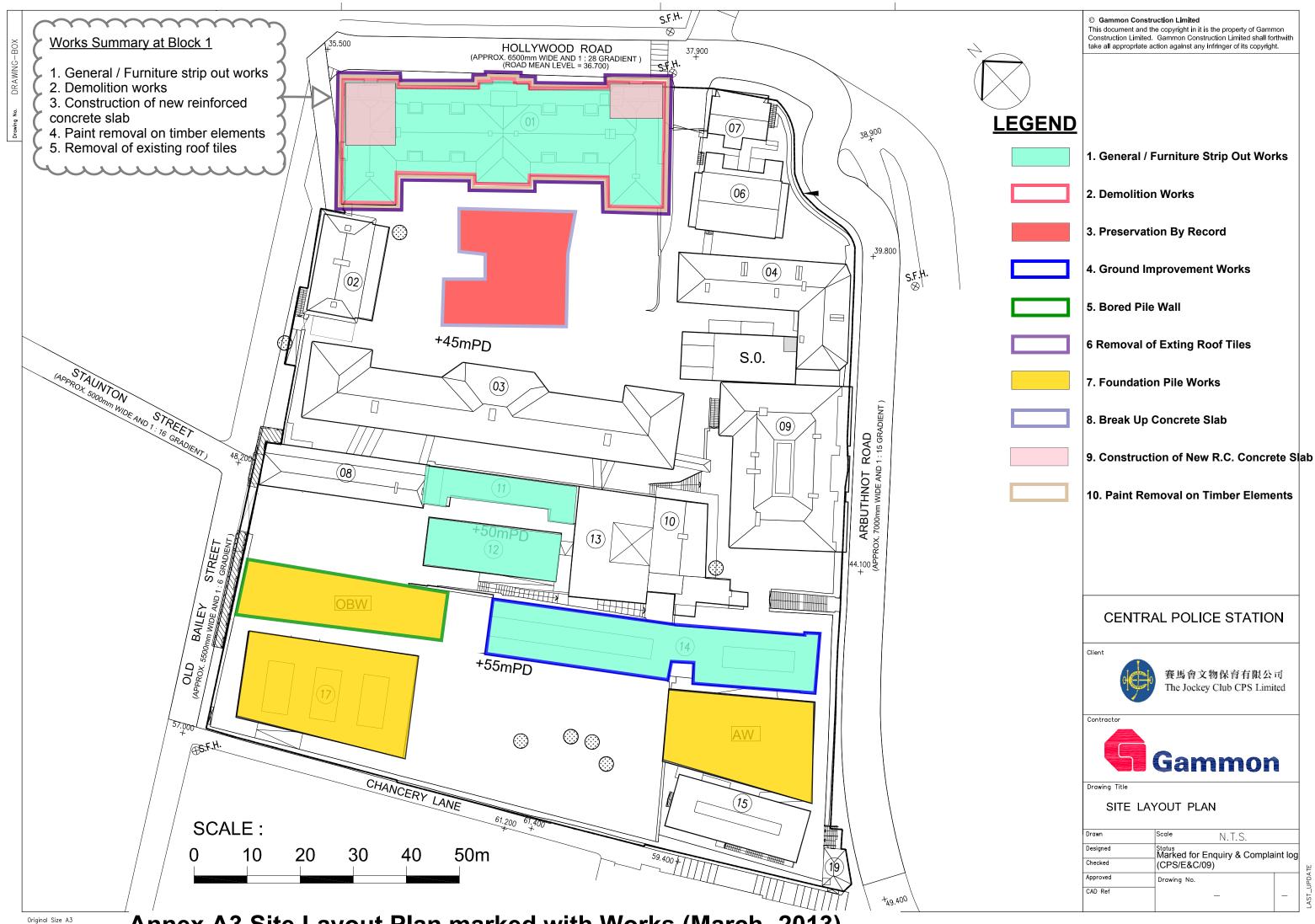
FILE: 0095646b1-A3.dgn DATE: 07/12/2011

Declared Monuments within the Project Site

Resources Management



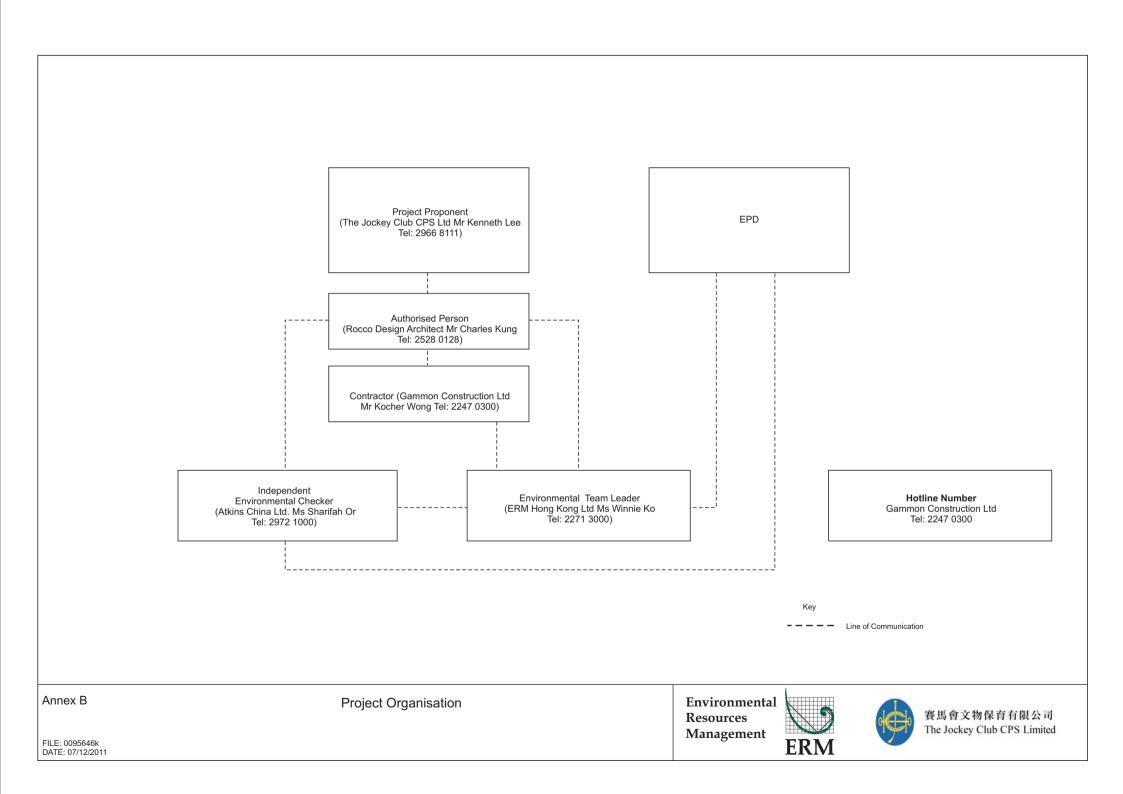




Annex A3 Site Layout Plan marked with Works (March- 2013)

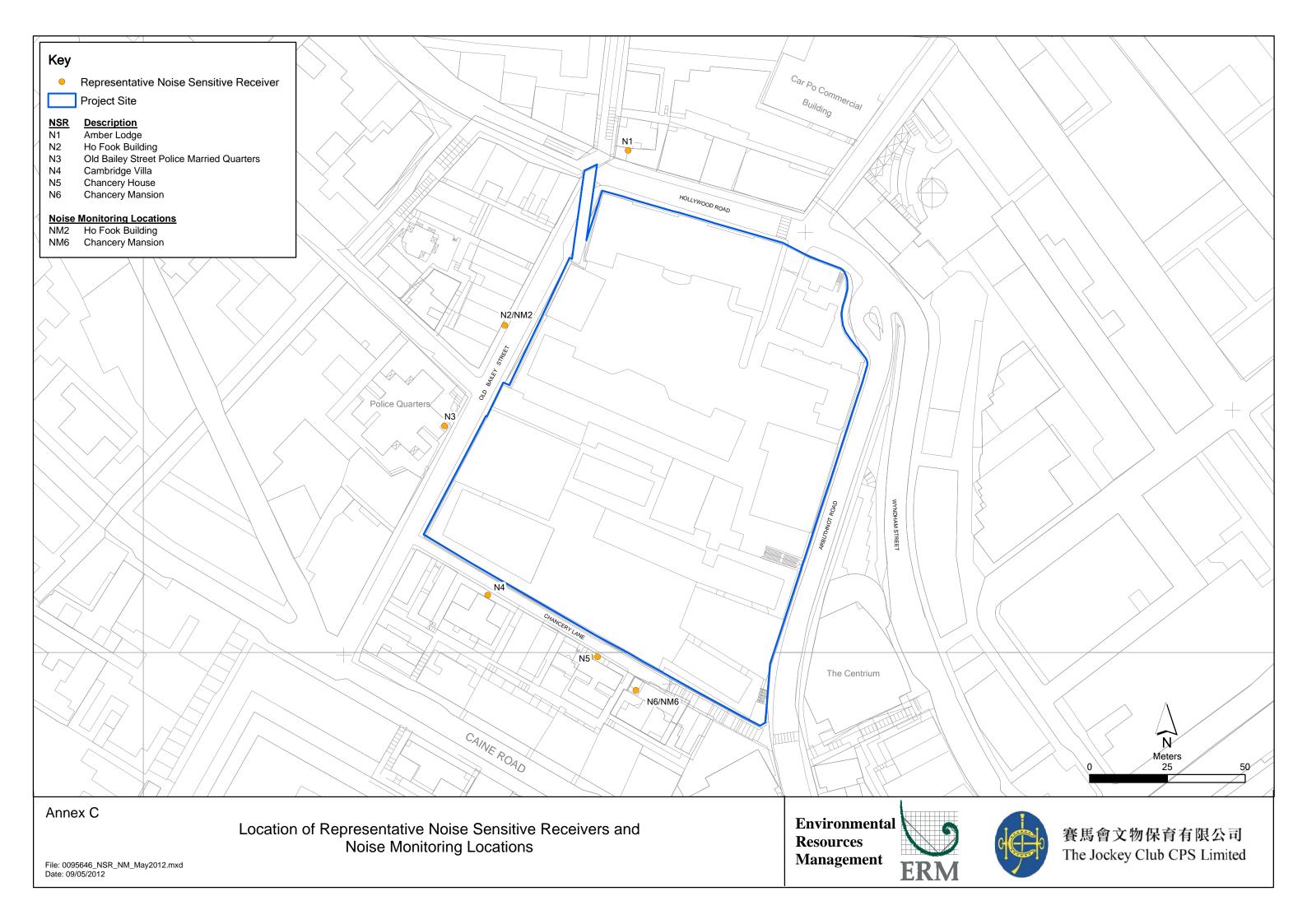
Annex B

Project Organization Chart and Contact Detail



Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



Annex D

Monitoring Schedule of the Reporting Period and Next Month

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - March 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Mar	02-Mar
03-Mar	04-Mar	05-Mar	06-Mar	07-Mar	08-Mar	09-Mar
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar
					Noise Monitoring at NM2 & NM6	
17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar
				Noise Monitoring at NM2 & NM6		
24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar
			Noise Monitoring at NM2 & NM6			
31-Mar						

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Next Reporting Month - April 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
-	01-Apr	02-Apr	03-Apr	04-Apr	05-Apr	06-Apr
		Noise Monitoring at NM2 & NM6				
07-Apr	08-Apr	09-Apr	10-Apr	11-Apr	12-Apr	13-Apr
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr
					Noise Monitoring at NM2 & NM6	
21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr
				Noise Monitoring at NM2 & NM6		
28-Apr	29-Apr	30-Apr				
		Noise Monitoring at NM2 & NM6				

Annex E

Calibration Reports for Calibrators and Sound Level Meters



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C124184

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號:IC12-1770)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No./編號

NC-73 10786708

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

17 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Rohde & Schwarz Laboratory, Germany

Tested By

測試

Certified By

核證

K C Lee

Date of Issue

簽發日期

18 July 2012

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

c o 4F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所

co香港新界屯門興安里一號青山灣機樓四樓 Tel/電話: 2927 2606 Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Page 1 of 2



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 交正證書

Certificate No.:

C124184

證書編號

The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

The results presented are the mean of 3 measurements at each calibration point. 2.

3. Test equipment:

> Equipment ID CL130 CL281 TST150A

Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

Certificate No. C123541 DC110233 C120886

4. Test procedure: MA100N.

5. Results:

Sound Level Accuracy 5.1

Douna Dever Tree arae			
UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.9	± 0.5	± 0.2

Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	1 kHz ± 2 %	± 1

Remark: The uncertainties are for a confidence probability of not less than 95 %.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC12-1674)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號

NC-73 10997142

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS/測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

9 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試

L K Yeung

Certified By

核證

K C Lee

Date of Issue

10 July 2012

簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel 電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

:



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

Equipment ID CL130 CL281 TST150A <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C123541 DC110233 C120886

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

1 Todata j 1 Todatao			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	$1 \text{ kHz} \pm 2 \%$	± 1

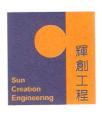
Remark: The uncertainties are for a confidence probability of not less than 95 %.

Note:

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C124191

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號:IC12-1770)

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商 Model No. / 型號

Rion NL-31

Serial No. / 編號

00603867

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

18 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Fluke Precision Measurement Ltd., UK
- Rohde & Schwarz Laboratory, Germany

Tested By

測試

L K Yeung

Certified By

核證

K/C Lee

Date of Issue

18 July 2012

簽發日期

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Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

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Certificate of Calibration

Certificate No.:

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證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm 1. up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point. 3.
- 4. Test equipment:

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C120016 DC110233

Test procedure: MA101N.

6. Results:

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

	UU	JT Setting		Applied	l Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	ne Level Freq.		Reading	Spec.
(dB)		Weighting	Weighting	g (dB) (kHz)		(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	UU	JT Setting		Applied	Value	UUT
Range	Mode	Frequency	Time	Level Freq.		Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L_A	A	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.8

IEC 61672 Class 1 Spec. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

Time Weighting 6.2

Time weigh	Time Weighting									
	UU	T Setting		Applied	Value	UUT	IEC 61672 Class 1			
Range	nge Mode Frequency		Time	Level	Freq.	Reading	Spec.			
(dB)		Weighting Weighting		(dB)	(kHz)	(dB)	(dB)			
30 - 120	L _A	A	Fast	94.00	1	93.8	Ref.			
			Slow			93.7	± 0.3			

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Calibration and Testing Laboratory

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Certificate No.: C124191

證書編號

Frequency Weighting

6.3.1 A-Weighting

11 Weighting									
	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1		
Range	Mode	Mode Frequency Time		ode Frequency Time		Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	_	(dB)	(dB)		
30 - 120	L_A	A	Fast	94.00	63 Hz	67.6	-26.2 ± 1.5		
					125 Hz	77.6	-16.1 ± 1.5		
					250 Hz	85.1	-8.6 ± 1.4		
					500 Hz	90.6	-3.2 ± 1.4		
					1 kHz	93.8	Ref.		
					2 kHz	95.1	$+1.2 \pm 1.6$		
					4 kHz	95.0	$+1.0 \pm 1.6$		
					8 kHz	92.8	-1.1 (+2.1; -3.1)		
					12.5 kHz	89.9	-4.3 (+3.0; -6.0)		

6.3.2 C-Weighting

C Weighting							
	UU'	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Level Weighting (dB)		Freq.	Reading (dB)	Spec. (dB)
30 - 120	L _C	C	Fast	94.00	63 Hz	93.0	-0.8 ± 1.5
					125 Hz	93.6	-0.2 ± 1.5
					250 Hz	93.8	0.0 ± 1.4
					500 Hz	93.9	0.0 ± 1.4
					1 kHz	93.9	Ref.
					2 kHz	93.7	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1; -3.1)
					12.5 kHz	88.1	-6.2 (+3.0; -6.0)

Remarks: - Mfr's Spec.: IEC 61672 Class 1

- Uncertainties of Applied Value: 94 dB : 63 Hz - 125 Hz : \pm 0.35 dB

250 Hz - 500 Hz : \pm 0.30 dB : $\pm 0.20 \text{ dB}$ 1 kHz 2 kHz - 4 kHz $\pm 0.35 \text{ dB}$ 8 kHz $\pm 0.45 \text{ dB}$

12.5 kHz $\pm 0.70 \text{ dB}$ 104 dB : 1 kHz $\pm 0.10 \text{ dB (Ref. 94 dB)}$

114 dB : 1 kHz $\pm 0.10 \text{ dB} \text{ (Ref. 94 dB)}$

- The uncertainties are for a confidence probability of not less than 95 %.

Note:

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Annex F

Event / Action Plans for Noise

Annex F Event and Action Plan for Noise

Event	Action										
	Environmental Team (ET)		Independent Environmental Checker (IEC)		Authorised Person (AP)		Contractor				
Action Level	 Notify IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, AP ar Contractor; Discuss with the Contractor ar formulate remedial measures; Increase monitoring frequency check mitigation effectiveness. 	nd 3.	Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the AP accordingly; Supervise the implementation of remedial measures.	 2. 3. 4. 	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to proposed remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented.	1.	Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.				
Limit Level	 Identify source; Inform IEC and AP; Repeat measurements to confifindings; Increase monitoring frequency Carry out analysis of Contractor's working proceduto determine possible mitigation to be implemented; Inform IEC, AP and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results; If exceedance stops, cease additional monitoring. 	2. res on 3.	Discuss amongst AP, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; Supervise the implementation of remedial measures.	 1. 2. 3. 4. 5. 	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	 1. 2. 3. 4. 5. 	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the AP until the exceedance is abated.				

Annex G

Summary of Implementation Status

Annex G Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Culture	al Heritag	ge			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	Recommendations under the AAP: • Preservation by Record (PBR) at Parade Ground has commenced in the reporting period and will carry on in the next reporting period.
S3.9.2	S3.3.1	Vibration Monitoring A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	√
S3.9.2	\$3.3.3	Compliance of the Approved Measures and Auditing Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement—of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies—related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works.—A detailed	Whole site	Prior to and during construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement. The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
S3.9.3	53.3.4	Archival Recording An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of asbuilt drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	General Construction Methods Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be	Whole site	During construction	N

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2	-	checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the	Whole site	During detailed design, construction, post-construction and operation	√- CMP was implemented during the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
	ipe & Visi	ıal			
S4.7.27	-	In-situ Tree Protection - Cordon Zone (CZ) Cordon off each tree along its drip line (below the crown) with a chain-link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction	Whole site	During construction	√
		drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.			
S4.7.2		In-situ Tree Protection - Advanced & Phased Root Pruning All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary, particularly in the dry season.			
S4.7.2	S4	In-situ Tree Protection - Monthly inspection Monthly inspection of affected trees by an experienced and	Whole site	During construction	√
		appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.			
S4.7.2	-	<u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	√
S4.7.2	S4	A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.			
		Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. $3/2006$ Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements			
		The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::			
		 Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. 			
		 Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. 			
		 Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	Vertical Greening	Inner Southern Wall	During detailed design and	N/A – No vertical greening was conducted during the reporting month.
		Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.		construction	1 0
		As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	New Custom Paving New, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	In-situ Tree Protection - Quarterly inspection Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
Noise					
S5.9	-	 The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
S5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	1
S5.9	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During construction	√
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	√ ·
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	√
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During construction	√ ·
Air Qu S6.8.1		Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	V
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	V
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	√
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	√
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	V
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	V
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	V
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	V
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	V
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	N. Control of the con
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	V

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	V
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	V
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	√
Water (Quality		I		
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	V
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	√ ·

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	V
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	V
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	V
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	√ ·
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	√
Waste 1	Manageme	nnt		1	
S8.5	\$6.3.1 & Table 6.1	General The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	Management of Waste Disposal The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase.	Whole Site	During construction	√
S8.5	S6.3	Reduction of Construction Waste Generation C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	V
S8.5	S6	 Containers used for storage of chemical waste shall: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	V
S8.5	S6	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	V
S8.5	S6 & Table 6.1	General Refuse General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	V
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	V
S8.5	S6	Staff Training At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commence-ment of construction	√
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	V

Remark:

- √ Compliance of Mitigation Measures
- Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd
- Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

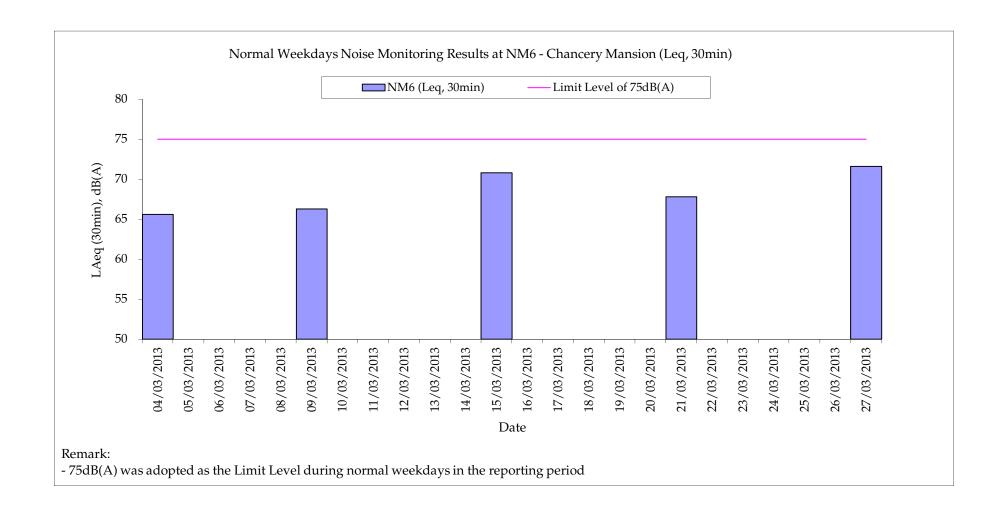
Daytime Noise Monitoring Results

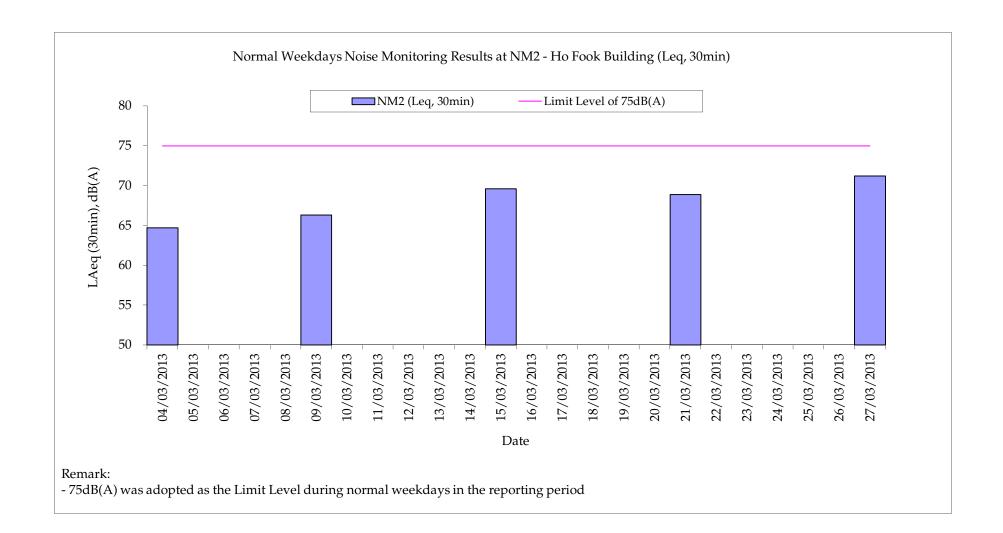
NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise	e level (dB(A)), 30 min		Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	Observed	Observed		()		
04-Mar-13	9:20	9:50	Sunny	65.6	67.0	64.0	64.0 Crawler crane (within the project site)		-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
09-Mar-13	10:23	10:53	Sunny	66.3	67.6	64.8	Crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
15-Mar-13	9:50	10:20	Fine	70.8	72.0	68.8	Piling, crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
21-Mar-13	10:02	10:32	Cloudy	67.8	69.5	64.3	Piling, crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
27-Mar-13	11:20	11:50	Cloudy	71.6	74.4	68.4	Piling, crawler crane (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	65.6								
			Max.	71.6								

NM2 Ho Fook Building

			Weather	Noise	level (dB(A)), 30 min	Major Construction	Other Noise		Wind Speed	Noise Meter	Calibrator Model / ID
Date	Start Time	End Time		Leq	L10	L90	Noise Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	
04-Mar-13	8:40	9:10	Sunny	64.7	66.4	62.2	62.2 Crawler crane (within the project site)		-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
09-Mar-13	9:45	10:15	Sunny	66.3	68.3	63.9	Crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
15-Mar-13	10:30	11:00	Fine	69.6	71.5	67.2	Piling, crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
21-Mar-13	10:45	11:15	Cloudy	68.9	70.8	65.5	Piling, crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
27-Mar-13	7-Mar-13 10:43 11:13 Cloudy 71.2 73.5		67.7	Piling, crawler crane (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)			
			Min.	64.7					•			•
			Max.	71.2								





Annex I

Construction Programme for the Project

Activity ID	Activity Description	Duration in Days	2011 J J A S O	NDJFMAMJJ		13 JASONDJE	2014 MAMJJASON	2015 DJFMAMJJASONI	2016 DJFMAMJJASON
GENERA	L		1 1 1 1 1	 		· 1 1 1 1 1	 	1 1 1 1 1 1 1 1 1 1 1	
S110	PRECONSTRUCTION WORKS	592			PRECON	STRUCTION	DRKS		
EXISTING	BUILDINGS		1 1 1 1				1 1 1 1 1 1 1 1 1 1		
160010	BLOCK 16 WORKSHOP & LAUNDRY (DEMOLITION WORKS)	198	1	BLOCK	16 WORKSHOP & LAU		ITION WORKS)		
180010	BLOCK 18/14 ANNEX/BLDG F/G/H/ (DEMOLITION WORKS)	149	1		/1 4 ANNEX/BLDG F/G/				
080010	BLOCK 08 ABLUTIONS BLOCK	731					BLOCK 08 ABL	UTIONS BLOCK	
170005	BLOCK 17 F HALL	593					BLOCK 17 F HALI		
010005	BLOCK 01 POLICE HEADQUARTERS BLOCK	626					BLOCK 01 P	OLICE HEADQUARTERS	BLOCK
140005	BLOCK 14 D HALL	645	1 1 1 1 1				BĽOCK 1	4 D'HALL	
120010	BLOCK 12 B HALL	341					12 B HALL		
110010	BLOCK 11 A HALL	311				BLOCK 11			
100010	BLOCK 10 SUPERINTENDENT'S HOUSE	517					BLOCK 10 S	UPERINTENDENT'S HOU	J\$E¦
130010	BLOCK 13 C HALL	517					BLOCK 13 C		
060005	BLOCK 06 MARRIED SERGEANTS' QUARTERS	223					MARRIED SERGE		
070005	BLOCK 07 SINGLE INSPECTORS' QUARTERS	225	1				07 SINGLE INSPEC		
030005	BLOCK 03 BARRACK BLOCK	440					BLOCK 03 B	ARRACK BLOCK	
020005	BLOCK 02 ARMOURY	425					BLOCK 02 A	RMOURY	
090005	BLOCK 09 CENTRAL MAGISTRACY	425					BLOCK 09 C	ENTRAL MAGISTRACY	
150010	BLOCK 15 E HALL	304					BLOCK 15 E HAL	L	
040005	BLOCK 04 MARRIED INSPECTORS' QUARTERS	349						MARRIED INSPECTOR	S QUARTERS
190005	BLOCK 19 BAUHINIA HOUSE	277					BLOCK 1	9 BAUHINIA HOUSE	
050002	BLOCK 05 (DEMOLITION WORKS)	119					■BLO¢K 05 (DEMO	LITION WORKS)	
OTHER V	VORKS								
253110	REVETMENT WALL / U/G UTILITIES / ROAD WORKS	679	1 1 1 1 1				ļ.	REVETMENT WALL / U/G	UTILITIES / ROAD WORK
NEW BUI	LDINGS								
S200	OBW OLD BAILEY WING	1,097						OBW OLD BAILE	Y WING
S300	AW ARBUTHNOT WING	1,056						AW ARBUTHNOT	WING
	NT PLANTROOM AND SERVICES TRENCH		↓				<u> </u>		
202005	BASEMENT PLANTROOM / SERVICES TRENCH	588			<u> </u>		BASEMENT P	LANTROOM!/SERVICES	TRENCH
	DTBRIDGE		4						
2300125	PROPOSED FOOTBRIDGE	699			PROPOSED	FOOTBRIDGE			



CENTRAL POLICE STATION CONSERVATION AND REVITALIZATION
(MANAGEMENT CONTRACT)
CONSTRUCTION PROGRAMME
SUMMARY PROGRAMME

1		GCL / P / J3416 /SUM/CP01		
	Date	Revision	Checked	Approved
	13NOV12	for EPD		
	04MAR13	revised		

Annex J

Tree Inspection Reports



Yan Wing (Hong Kong) Environment Management Limited

香港 新界 沙頭角 新樓街 15 號 二樓 No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong RECEIVED

- 2 APR 2013

Tel. 2516 8823

Fax.2516 6260

通信地址 (Mail Address): 上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

30th March 2013

Our Ref.: YW/TP/GAMMON/2013/3/1

Gammon Construction Limited 28/F Devon House TaiKoo Place 979 King's Road

Hong Kong

Attn: Mr. Cliff C.H. LEUNG, Mr. Ariel LUI

Dear Sirs,

Summary of Monthly Inspection Report for the Six Existing Trees at Central Police Station Compound for March 2013 (Contract Ref. : J3416/400.4/D00025)

Tree	Botanical	Date of	Overall Health Condition	
No.	Name	Inspection	Good/Fair/Poor	Remarks
Tree-5	Mangifera indica 芒果	28 th Mar. 2013	Good	N.F.A.
Tree-6	Aleurites moluccana 石栗	28 th Mar. 2013	Fair	N.F.A.
Tree-7	Aleurites moluccana 石栗	28 th Mar. 2013	Fair	N.F.A.
Tree-8	Plumeria rubra 紅雞蛋花	28 th Mar. 2013	Fair	N.F.A.
Tree-9	Araucaria cunninghamia 花旗杉	28 th Mar. 2013	Fair	Sap flow still appears on the mid trunk.
Tree-11	Dracaena marginata 馬尾鐵	28 th Mar. 2013	Fair	N.F.A.





Yan Wing (Hong Kong) Environment Management Limited

香港 新界 沙頭角 新樓街 15號 二樓

No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong

通信地址 (Mail Address): 上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

Tree Inspection Reports and Tree Group Inspection Form (Form 1) are attached for your reference and record, please.

I should be much grateful if you could endorse the attached Invoice (No.1019) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

For and on behalf of Yan Wing (HK) Environment Management Ltd.

> (WONG Pak Hay) Contract Manager

FORM 1: TREE GROUP INSPECTION FORM 表格 1: 樹群檢查表格

General Information 基本資料

General Internation A	产 與们					
	ımmon Constructio		Name of Tree Inspec			LAU Man Chung
File Ref. 檔案編號: YW Date of Inspection 巡查日期	V/TP/GAMMON/201 归: March 28, 20		Name of Endorseme	ent Officer 覆核	人員姓名:	WONG Pak Hay
Project/Contract No.合約/コ		15 416/400.4/D00025				
Location Information 位为	置資料	=				
Location 地點: Central	Police Station Compo	ound.	Nearby Utility Po	ost No. 就近公月	目設施編號:	
Location Types 地點類別:	Roadside	: 路旁			Hall / Centre 社	區會堂 / 中心
Address:	X Open s		Planter 路旁花圃			
(multiple answers allowed) 可選多於一項)		on Centre 展覽中心			/pavilion 避雨亭	亨/涼亭
可思少於 到		nt 觀景台		Sitting out an	ea 休憩處	
	1000000	/ nature trail 行山徑				
L		olease specify)其他 (i	請說明):			
General Tree Information	The state of the s	15		T	-	青把不合適的刪除
Main tree species in the group or minority tree species of	Approx. number of trees in the	Range of tree height (m)	Overall health condition	Overall structural		rks (Any special tree .g. dying/dead,
significant size	relevant species or	該樹種高度範圍		condition		problem and structural
在群組内的主要樹種或樹幹胸徑或高度或樹冠範圍較大	as a % of tree		(good, fair,	整體結構狀況		soil condition
的樹種	group 該樹種在群組內		poor 好,良,差)	(good, fair, poor好,良,	其他評語 (樹木狀况例	列如:凋謝/枯樹/病蟲害
(Note 2)	的百份比/數目*			差)		題;及泥土狀况)
Mangifera indica 芒果	17%, 1 No.	16M	GOOD	GOOD	N.F.A.	
Aleurites moluccana 石栗	32% 2 Nos.	10-13M	FAIR	FAIR	N.F.A.	33.49
Plumeria rubra 紅雞蛋花	17% 1 No.	7M	FAIR	FAIR	N.F.A.	
Araucaria cunninghamia 花旗杉	17% 1 No.	13M	FAIR	FAIR	Sap flow s	still appears on mid
Dracaena marginata 馬尾鐵	17% 1 No.	8M	FAIR	FAIR		
Target 目標				7,010-00-00-00-00-00-00-00-00-00-00-00-00-		
TARGET (people or property	potentially affected by	tree/branch failur	e) 目標 (因樹木倒場	或枝條斷裂而受影	響的人或財產	
Does target exist? 目標是否	存在? X Yes 是	☐ No 否				
Can target be moved?能否移		- Laurent				
Can the use of site be restrict			s是 No 否			
Frequency of use of location Occasional use 偶爾使用			Frequent use 經常使	⊞ □ Constan	nt use 恆常使戶	EE
Identification of Trees for					10 000 (3.1)1 (2.7)	13
識別下述樹木,以便採取風險緣			ice risk assessing	CHE		
Trees falling under the follo		ATT-TANKED III		Number of trees	Remedial act	tion or detailed tree risk assessment
樹木屬於以下任何一項或多於	一項類別			樹木數量		進行詳細樹木風險評估
	aint list with structu 構或健康問題的樹木		olems	NII		
			od structure and hav	ring NII	-	
unsatisfactory h	nealth or structural c 並已達成熟期及有倒	onditions with fa	ilure potential	mg III		
(3) Tree with major	defects or health pr	roblems		NII		
	康問題的樹木 (Note n very stressful site		failure potential	NII	-	
生長於非常擠壓 Attached Information 附夾資料	環境而有倒塌風險的	樹木 (Note 1)				
□ Site plan 場地平面圖	printering .	rd 相片紀錄	Others 其他 (nl	ease specify 清說明	7) · Monthly	y Inspection Reports
Signature of Tree Inspection Offi		III/ N.C.A.	C outs Acid ibu	Canada Cay Brance 91). Wonting	MENT MON
Signature of Endorsement Office	r:		$\overline{}$	172	/	
Name of Contractor	Yan W	ing (HK) Envir	onment Manageme	ent Ltd.	-	
Date:	30-3-20	/				SALW MAY
Note 1: If remedial action (such as pr 精註 1: 若風險緩減措施(如枝幹修)	uning) undertaken cannot miti 的)仍未能解決倒塌或枝條斷	igate the potential rick of 裂的潜在風險,應為該	free or branch failure, detailed 樹進行詳細的樹木風險評估(tree risk assessment (using 表格 2)。	Form 2) should be	carried out.

Please read in conjunction with TMO's Guidelines on Tree Risk Assessment and Management Arrangement (Para. 4.3. refers.)

備註 2: 請參閱樹木管理辨事處的樹木風險評估安排及管理指引(第 4.3 節)

Note 2:

Inspection Report for the 6 Existing Trees at Central Police Station Compound

(Contract Ref.: J3416/400.4/D00025)

I. TREE NUMBER: Tree-5 Mangifera indica 芒果

II. BASIC INFORMATION:

Height (m)	16m	Crown spread (m)	18m		
DBH (mm)	1000mm	Overall Health Condition	Good		
		Good/Fair/Poor			
Date of Inspection	28 th March 2013	Last Inspection Date	21 st February 2013		

III. COMMENTS:

- 1. Overall health condition of the tree is good.
- 2. Cleanliness of the planter is acceptable.
- 3. The site appears clean and tidy.
- 4. The tree is in blossom at the time of inspection.
- 5. Construction works in progress outside the cordon zone.

IV. RECOMMENDATIONS:

1. No further action is required.

Tree - 5
Mangifera indica 芒果
Maintained by:
永榮(香港)環境管理有限公司
Tel. 9776 1987



Fig 2. Cleanliness of the planter is acceptable.

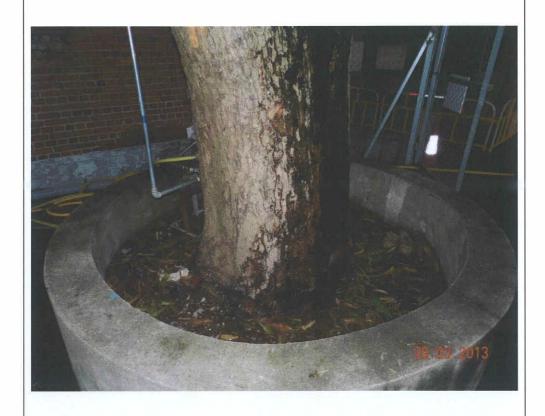


Fig. 3 The site appears clean and tidy





Fig. 4 The tree is in blossom during inspection on 28th March 2013.



Fig. 5 Two pipes lead water to tree top for irrigation.





Fig. 6 Construction works are in progress outside the cordon zone

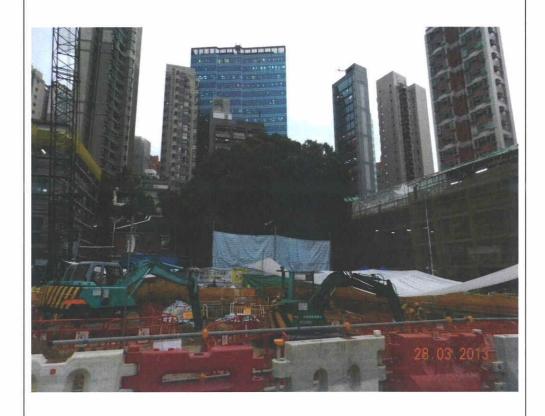
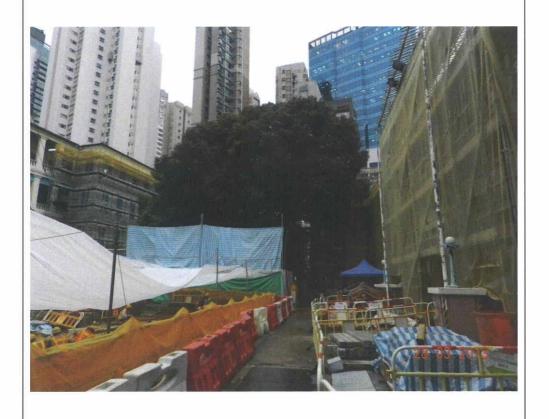


Fig. 7 The site near the entrance to Tree-5 is clean and tidy.





Overall view of Tree-5 during inspection on 28th March 2013. Fig. 8



Signature of Inspection Officer: (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30th March 2013.



Inspection Report for the 6 Existing Trees at Central Police Station Compound

(Contract Ref.: J3416/400.4/D00025)

I. TREEE NUMBER: Tree-6 Aleurites moluccana 石栗

II. BASIC INFORMATION:

Height (m)	10m	Crown spread (m)	10m	
DBH (mm)	510mm	Overall Health Condition	Fair	
		Good/Fair/Poor		
Date of Inspection	28 th March 2013	Last Inspection Date	21 st February 2013	

III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Cleanliness of the site is acceptable
- 4. Construction works in progress outside the cordon zone.
- 5. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS:

1. No further action is required.

Fig 1. Tree number

28. 03. 2013



Fig 2. The planter is clean and tidy.



Fig. 3 Cleanliness of the site is acceptable at the time of inspection.





Fig. 4 Construction works in progress outside the cordon zone.

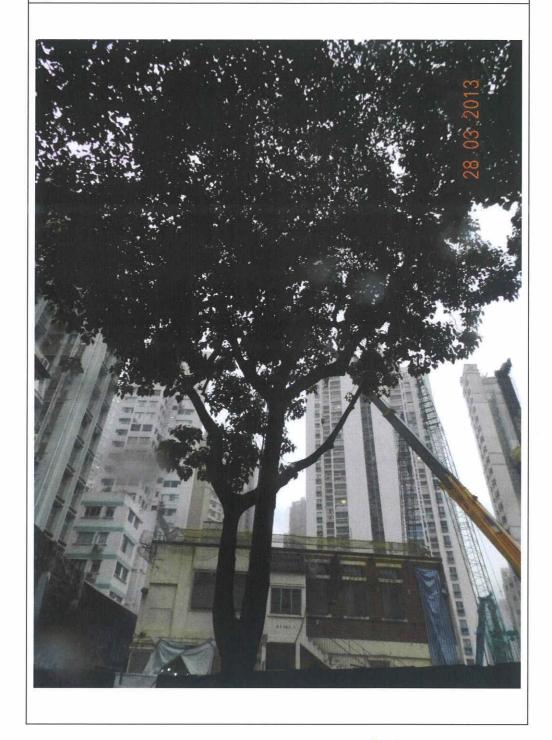


Fig. 5 It is raining at the time of inspection, the site outside the cordon zone is clean and tidy.





Fig. 6 Overall view of Tree-6 during inspection on 28th March 2013.



Signature of Inspection Officer: (Mr. LAU Man-chung, ISA CA-HK0050A) Signature of Endorsement Officer: (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30th March 2013



Inspection Report for the 6 Existing Trees at Central Police Station Compound

(Contract Ref. : J3416/400.4/D00025)

I. TREEE NUMBER: Tree-7 Aleurites moluccana 石栗

II. BASIC INFORMATION:

Height (m)	13m	Crown spread (m)	12m
DBH (mm)	650mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	28 th March 2013	Last Inspection Date	21 st February 2013

III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable.
- 3. Cleanliness of the site is acceptable.
- 4. Appropriate notices display in front of the cordon zone.

IV. RECOMMENDATIONS:

1. No further action is required.

Fig 1. Tree number

Advants molector (28 to 19 t



Fig 2. Cleanliness of the planter is acceptable.

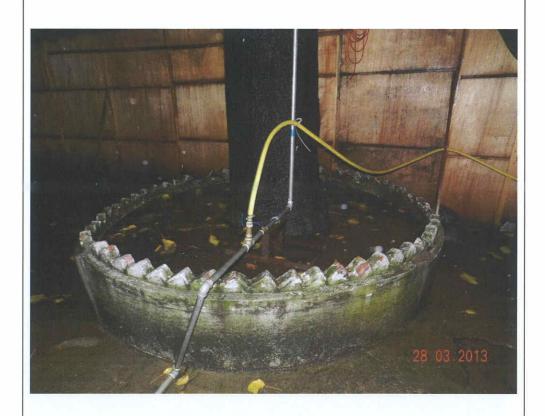


Fig. 3 Cleanliness of the site is acceptable.

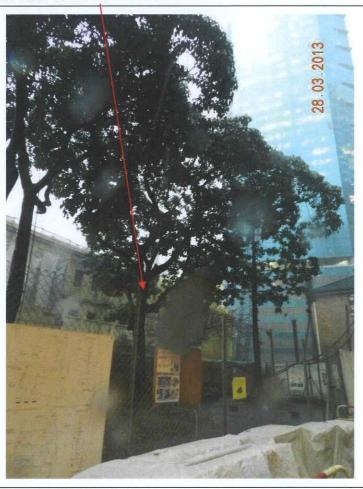




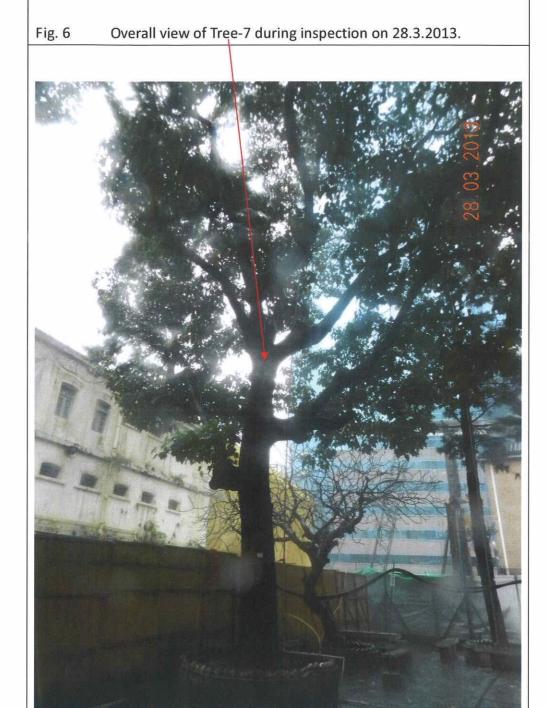
Fig. 4 Appropriate notices display in front of the cordon zone.



Fig. 5 Side view of Tree 7







Signature of Inspection Officer: (Mr. Lau Man-chung, ISA CA–HK0045A) Signature of Endorsement Officer: (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30th March 2013



Inspection Report for the 6 Existing Trees at Central Police Station Compound

(Contract Ref. : J3416/400.4/D00025)

I. TREEE NUMBER: Tree-8 Plumeria rubra 紅雞蛋花

II. BASIC INFORMATION:

Height (m)	7m	Crown spread (m)	9m
DBH (mm)	430mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	28 th March 2013	Last Inspection Date	21 st February 2013

III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter appears clean and tidy.
- 3. Cleanliness of the site is acceptable.
- 4. Most leaves of the tree have fallen at the time of inspection.
- 5. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS:

1. No further action is required.

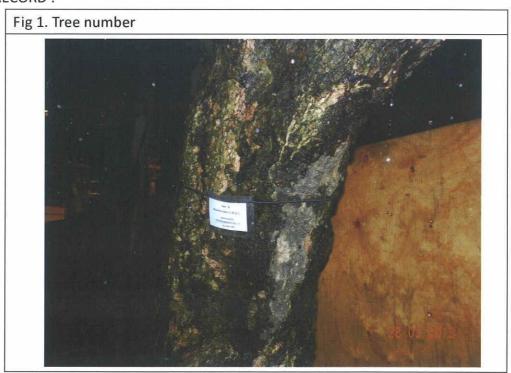




Fig 2. The planter appears clean and tidy.

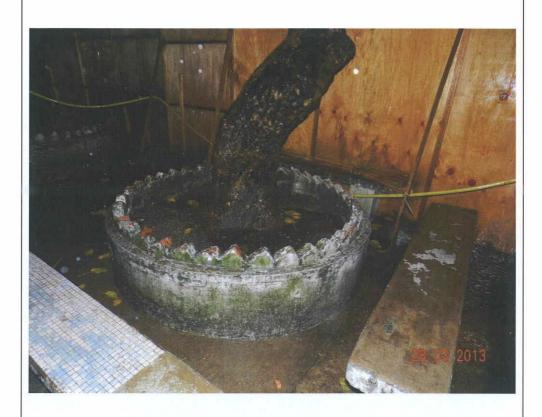


Fig. 3 Cleanliness of the site inside the cordon zone is acceptable.





Fig. 4 Most leaves of Tree-8 have fallen at the time of inspection.



Fig. 5 It is raining at the time of inspection, the site outside the cordon zone is clean and tidy.





Fig. 6 Overall view of Tree-8 during inspection on 28th March 2013.



Signature of Inspection Officer: (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30th March 2013



Inspection Report for the 6 Existing Trees at Central Police Station Compound

(Contract Ref.: J3416/400.4/D00025)

I. TREEE NUMBER: Tree - 9 Araucaria cunninghamia 花旗杉

II. BASIC INFORMATION:

Height (m)	13m	Crown spread (m)	5m
DBH (mm)	230mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	28 th March 2013	Last Inspection Date	21 st February 2013

III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable.
- 3. The site inside the cordon zone is clean and tidy.
- 4. Sap flow still appears on the mid trunk.
- 5. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS:

1. Keep close monitoring on the sap flow at regular intervals.



Fig 2. Cleanliness of the planter is acceptable.



Fig. 3 The site is clean and tidy at the time of inspection.

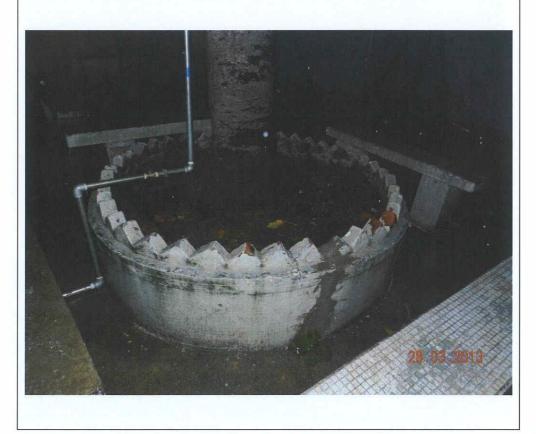




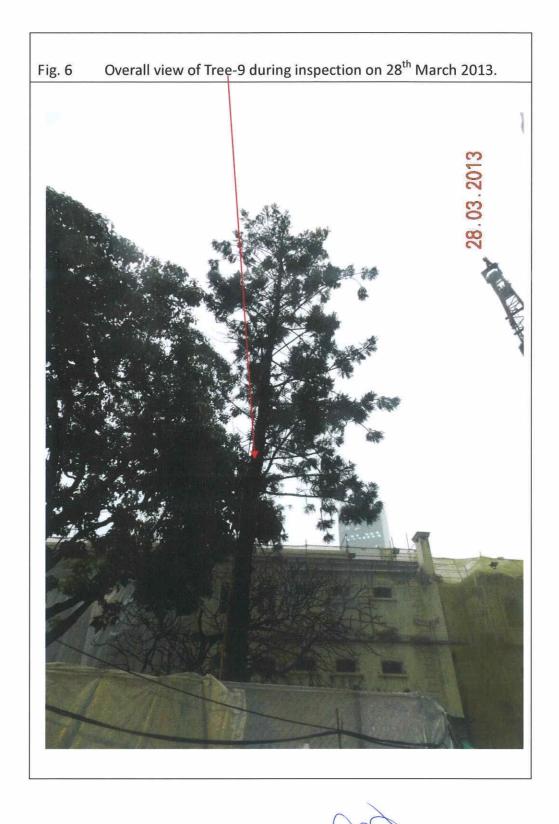
Fig. 4 Sap flow still appears on the mid trunk, close monitoring at regular intervals is required.



Fig. 5 It is raining at the time of inspection, the site outside the cordon zone is clean and tidy.







Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30th March 2013



Inspection Report for the 6 Existing Trees

at Central Police Station Compound

(Contract Ref. : J3416/400.4/D00025)

I. TREEE NUMBER: Tree -11 Dracaena marginata 馬尾鐵

II. BASIC INFORMATION:

Height (m)	8m	Crown spread (m)	2m
DBH (mm)	170mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	28 th March 2013	Last Inspection Date	21 st February 2013

III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. The site is clean and tidy at the time of inspection.
- 4. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS:

1. No further action is required.

Fig 1. Tree number

28 03 20 3



Fig. 2 The planter is clean and tidy.



Fig. 3 The site is clean and tidy at the time of inspection.

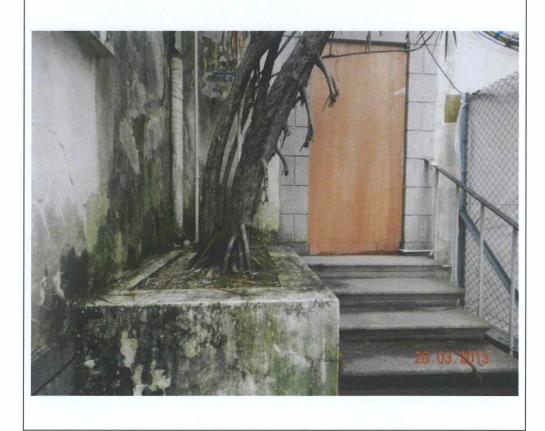




Fig. 4 The tree is growing healthily at site.

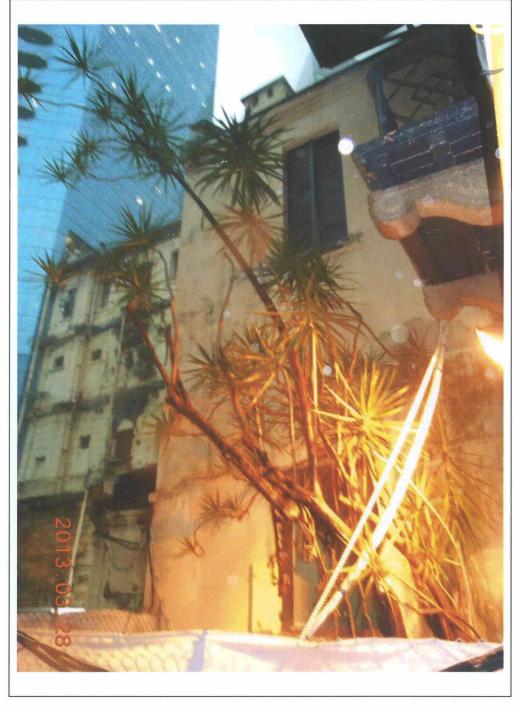


Fig. 5 The site outside the cordon zone is clean and tidy.





Fig. 6 Overall view of Tree-11 during inspection on 28th March 2013.



Signature of Inspection Officer: (Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30th March 2013



Annex K

Environmental Complaint, Environmental Summon and Prosecution Log

Annex K Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	4	0
April 2012	0	0
May 2012	0	0
June 2012	2	0
July 2012	1	0
August 2012	0	0
September 2012	0	0
October 2012	0	0
November 2012	2	0
December 2012	0	0
January 2013	0	0
February 2013	1	0
March 2013	1	0
Overall Total	11	0









Central Police Station Conservation and Revitalisation Project



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

Log Number:	2013/03/001
Date of Complaint Received	28 March 2013
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Gammon Construction Limited (GCL)
Complainant	Resident from Chancery Lane

Details of Complaint

GCL received a complaint on noise nuisance transferred by the EPD at 3:30pm on 28 March 2013. The complainant, a neighbourhood resident from Chancery Lane, mentioned that noise nuisance of low frequency was generated from the CPS construction site. The exact time of occurrence of the noise nuisance or its duration was not provided.

Investigation Report

- 1. Air compressors were observed from a photo of the CPS construction site taken by the EPD from the location of complainant. Three air compressors near Block 14 and two air compressors at Arbuthnot Wing (AW) (*Figure 1*) could be the potential source of the mentioned noise nuisance.
- 2. According to the information provided by the Contractor, the air compressors were only operating during daytime and the air compressor in the open area near Block 14 was provided with noise barriers on the side (*Figure 2*).
- 3. Recent noise monitoring was conducted at the rooftop of Chancery Mansion along the Chancery Lane on 27 March 2013 during which the air compressors were operating. The noise levels at the monitoring location complied with the construction noise standards.

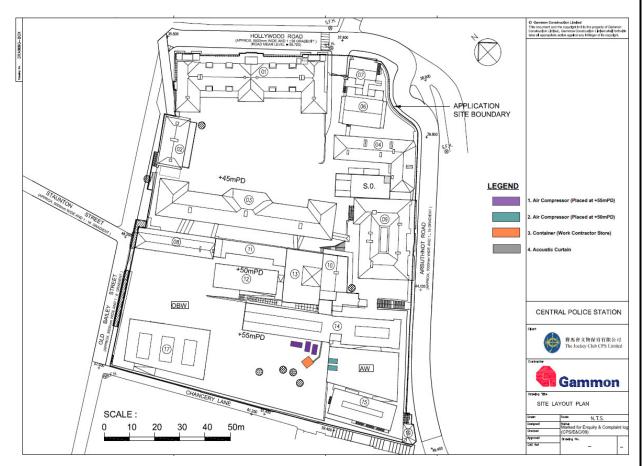


Figure 1 – Site layout plan showing locations of air compressors and noise barrier



Figure 2 – Noise barrier for air compressors near Block 14

Mitigation Measures and Follow-up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor was recommended to conduct regular inspection of the air compressors and other machineries to ensure that they are well-maintained and operating in normal condition without generating any abnormal or excessive noise. The Contractor was also reminded that machines and plants that may be in intermittent use should be shut down if not in use or throttled down to a minimum.

Date of File Closed:

10 April 2013

Approved by:

ET Leader

IEC

JCCPS's

Representative

Rocco Design Architect's

Representative

11

(Name: Winnie Ko) Date: 10 April 2013

(Name: Sharifah Or)

Date: 11 April 2013

14 Apr 2013 Date:

Gammon's Representative

(Name: Cliff Lung Date: 10-April-2013

Annex L

Records of Vibration Monitoring for Trial Piling and Pipe/Bored Piling works





Monitoring Check Pts.	Trigger Levels					
Withfulling Check 1 is.	Alert level	Alarm level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

Vibration Record

Project Title	e: Centra	al Police Sta	tion Conserva	ation & Revi	talization	Project No:	WP201	22-Feb-2013	to	7-Mar-201.
POIN	Γ	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012	(Initial)	0.132	0.698	0.094	0.086	0.239				
22-Feb-13		0.496	0.217	0.222	1.700	0.420				
23-Feb-13		0.495	0.186	0.117	0.172	0.166				
24-Feb-13							Sunday			
25-Feb-13		1,400	0.805	0,259	0.413	0.182				
26-Feb-13		0.151	0.249	0.100	0.087	0.221				
27-Feb-13		0.100	0.453	0.105	0.401	0.202				
28-Feb-13		0.544	0.192	0.087	0.172	0.128				
01-Mar-13		0.319	0.281	0.103	0.105	0.144				
02-Mar-13		0.323	0.244	0.151	0.177	0.519				
03-Mar-13							Sunday			
04-Mar-13		0.767	0.166	0.108	0.093	0.157				
05-Mar-13		1.590	0.640	0.097	0.803	0.720				
06-Mar-13		0.694	0.309	0.355	1.050	0.150				
07-Mar-13		1.620	0.370	0.263	0.573	0.370				

Prepared by : Wong Wing Yee

Endorsed by: Yee Hop



Monitoring Check Pts.	Trigger Levels					
Womforing Check Pts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

Project Title	e: Centra	al Police Sta	tion Conserva	ation & Revi	talization	Project No:	WP201	8-Mar-2013	to	21-Mar-2013
	(WP10	7 Parade Gr	ound Baseme	nt)						
POIN	г	VM1-1	#VM1-2	VM2-1	VM3-1	#VM3-2				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012	(Initial)	0.132	0.698	0.094	0.086	0.239				
08-Mar-13		0.247	0.108	0.184	0.143	0.163				
09-Mar-13		0.205	0.150	0.098	0.293	0.165				
10-Mar-13							Sunday			170
11-Mar-13		0.880	0.321	0.094	0,413	0.150				
12-Mar-13		0.174	0.171	0.174	0.956	1.550				
13-Mar-13		0.364	0.139	0.093	0.146	0.353				
14-Mar-13		0.230	0.119	0.095	0.384	0.151				
15-Mar-13		0.272	0.353	0.140	0.364	0.160				
16-Mar-13		1.240	0.214	0.563	0.590	0.282				
17-Mar-13							Sunday			
18-Mar-13		0.273	0.283	0.623	0.265	0.227				
19-Mar-13		0.520	0.427	0.456	0.169	0.162				
20-Mar-13		0.286	0.284	0.145	0.131	0.116				
21-Mar-13		0.128	0.131	0.295	0.087	0.122				
Remarks: # V	bration at l	largest span of	highest structur	al level						

Prepared by: Wong Wing Yee Let Endorsed by: Yee Hop



Manitoring Chaols Dto	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of	5.0 mm/s	6.0mm/s	7.5 mm/s			
highest Structural level	O TOMMIN'S	0.0111111111111111111111111111111111111				

Project Title: Centr	ral Police Sta	tion Conserva	tion & Revi	talization	Project No:	WP107	22-Mar-2013	to	4-Apr-2013
(WP10)7 Parade Gr	ound Basemer	nt)		·				•
POINT	V M 1-1	#VM1-2	VM2 -1	VM3-1	#V M 3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
22-Mar-13	0.214	0.285	0.094	0.860	1.230				
23-Mar-13	0.196	0.202	0.135	0.208	0.188				
24-Mar-13		-		-	Sunday				-
25-Mar-13	0.334	0.180	0.128	1.210	1.640				
26-Mar-13	0.329	0.163	0.117	0.428	0.132				
27-Mar-13	0.286	0.094	0.169	0.098	0.108				
28-Mar-13	0.178	0.251	0.102	0.116	0.160				
29-Mar-13	•	-		-	Holiday	•			-
30-Mar-13					Holiday				
31-Mar-13					Sunday				
01-Apr-13					Holiday				
02-Apr-13	0.178	0.251	0.102	0.116	0.160				
03-Apr-13	0.116	0.112	0.102	0.502	0.177				
04-Apr-13					Holiday				
Remarks: # Vbration at	largest span of	highest structura	l level						

Prepared by: Wong Wing Yee Endorsed by: Yee Hop

Bored Pile Walls / Pipe Pile Walls at Block 50 WYNDHAM & B.D. Ref. No. 原宇書標案編成 3/3053/11 (日に 17 & 5 b) (Hは)(5) STREET 11SW-B/R18 No.编集 Des No. 編集 Description 說明 Date 日期 Approved 宴
- BD SUBMISSION 12/11 JS 11SW-B/R22 A DA TONHTUBAA Shiu King The Centrium Court 11SW-B/R805 11SW-B/R806 11SW-B/R23 11SW-B/R52 Plan Approved RS53-17 RT53-17 NG Kin¹shing Chief Structural Engineer for BUILDING AUTHORITY 11SW-B/R24 BS14-13/2 PMH-4 20 FEB 2012 RS19-7 BS3-7 -11SW-B/R53 -11SW-B/R176 →IN1-3 BS3-5/ BT3-3 **★**VM13-1/ 11SW-B/R19 BS3-8/ BT3-4 11SW-B/R174 BS14-7 11SW-B/R175 BD SUBMISSION Drawing Status 製圖狀況 36.73 LEGEND 833900 E Do not take measurements 切勿直接從圖紙上量度尺寸 Check and verify all dimensions or site 所有尺寸必須在工地現場複查及署核。 EXISTING FRESH WATER MAIN and all other related drawings. 此圈抵必须與双格以明書及其它有關國紙一併閱讀。 EXISTING SALT WATER MAIN EXISTING STREET LIGHTING NO. 33488-A1 BS2-3 BS3-2/ 11SW-B/R19 EXISTING STREET LIGHTING CABLE 11SW-B/R177 署馬會文物保育有限公司 1SW-B/R55-30 RS177-2 BS17-BT17-EXISTING LV ELECTRICITY CABLE HERZOG & DE MEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN ROCCO 许字严 ADH3(S/P) DH19(BS17-11/ PROPOSED FOUL SEWER E & M Engineer JRP SITE BOUNDARY ARUP 11SW-B/R54 EXISTING RETAINING WALL ryoped দুল CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT → DH1 (S,P) UT: EXISTING DRILLHOLF WITH STANDPIPE/PIEZOMETER Drawing Title III & UT2 RS178−1/ ⊠ RS178−1/ BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER MONITORING LAYOUT PLAN OEC 23 P 2:09 PROPOSED RETAINING WALL SETLEMENT POINTS/TILTMETER RS174-1/RT174-1 PERMIT IS CRITAINED AS ALTERNATIVE PERMIT IS CRITAINED AS ALTERNATIVE 1 **→**IN1-1 PERSONNES OBTAINED AS ALTERNATIVE SETTLEMENT FORMY (SELECTION OF SELECTION OF STATE OF SETTLEMENT AS AS AS OF SETTLEMENT AS AS AS OF SETTLEMENT HARRES SETTLEMENT HARRES SUIT TO 19 THE LOCAL AS SETTLEMENT HARRES SUIT TO 19 THE LOCAL ASSOCIATION OF SETTLEMENT SETTLEMENT SUIT TO 19 THE SETTLEMENT PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE OR PIPE PILE WALL K.C.Lai 1:300@A1 Ø^{GS1} Drawing No. 国状 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS 2011 UT1 Loon PROPOSED UTILITY MONITORING POINTS SETTINES WITH THE STETT LEMENT ATTENTY OF CUT BALLEY WING TO THE CONTROL OF CONTROL OF CONTROL OF CUT BALLEY WING TELS WEEKS **→**VM1−1 9817 PROPOSED VIBRATION MONITORING POINTS ACH1(S/P) PROPOSED ADDITIONAL DRILLHOLE

WWW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

(Bored Pile Walls / Pipe Pile Walls at Block 50)

Monitoring Check Pts.	Trigger Levels					
Montoning Check Fis.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

Vibration Record

Project Title:	ect Title: Central Police Station Conservation & Revitalization		on	Project No: WP201		24-Feb-2013 to		9-Mar-2013		
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)	0.56	0.13	0.19	0,22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
24-Feb-2013						Sunday	•			
25-Feb-2013		0.26	0.24	0.16	0.20	0.17	0.30	0.22	0.11	0.28
26-Feb-2013		0.20	0.50	0.30	0.22	0.10	0.28	0,20	0.17	0.33
27-Feb-2013		0.13	0.33	0.28	0.11	0.19	0,55	0.32	0.51	0.13
28-Feb-2013		0.22	0.27	0.31	0.19	0.40	0.26	0.20	0.14	0.16
1-Mar-2013		0.18	0.15	0.25	0.16	0.51	0.24	0.36	0.16	0.18
2-Mar-2013		0.33	0.24	0.16	0.28	0.15	0.30	0.21	0.28	0.29
3-Mar-2013					44.00	Sunday				
4-Mar-2013		0.22	0.31	0.13	0.51	0.39	0,16	0.16	0.22	0.69
5-Mar-2013		0.13	0.22	0.21	0.19	0.66	0.16	0.45	0.33	0.19
6-Mar-2013		0.15	0.17	0.35	0.15	0.43	0.57	0.35	0.61	0.72
7-Mar-2013		0.24	0.25	0.75	0.12	0.25	0.64	0.12	0.15	0.25
8-Mar-2013		0.13	0.25	0.55	0.35	0.36	0.13	0.19	0.41	0.19
9-Mar-2013		0.25	0.36	0.13	0.22	0.51	0.91	0.15	0.19	0.26
Remark										

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WW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

(Bored Pile Walls / Pipe Pile Walls at Block 50)

Manitarina Chaels Dto	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

Vibration Record

Project Title:	Central	Police Station	Conservation	& Revitalization	n	Project No: WP201		10-Mar-2013 to		23-Mar-2013
			ı	T			1	<u> </u>		
POINT	1	VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 ((Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
10-Mar-2013						Sunday				
11-Mar-2013		0.23	0.22	0.13	0.68	0.55	0.19	0.13	0.13	0.33
12-Mar-2013		0.13	0.25	0.19	0.66	0.71	0.13	0.25	0.44	0.13
13-Mar-2013		0.23	0.14	0.61	0.78	0.16	0.18	0.15	0.89	0.12
14-Mar-2013		0.13	0.25	0.13	0.19	0.64	0.55	0.89	0.13	0.22
15-Mar-2013		0.55	0.25	0.31	0.54	0.13	0.19	0.54	0.29	0.19
16-Mar-2013		0.25	0.35	0.72	0.35	0.26	0.25	0.35	0.25	0.15
17-Mar-2013			•	•		Sunday				,
18-Mar-2013		0.21	0.13	0.61	0.25	0.22	0.64	0.29	0.19	0.13
19-Mar-2013		0.31	0.12	0.26	0.15	0.15	0.32	0.19	0.17	0.13
20-Mar-2013		0.18	0.21	0.35	0.25	0.45	0.36	0.15	0.21	0.32
21-Mar-2013		0.25	0.28	0.16	0.35	0.13	0.13	0.16	0.35	0.39
22-Mar-2013		0.32	0.14	0.34	0.28	0.20	0.46	0.48	0.25	0.35
23-Mar-2013		0.25	0.54	0.28	0.35	0.15	0.20	0.24	0.29	0.30
Remark										

WW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

(Bored Pile Walls / Pipe Pile Walls at Block 50)

Monitoring Chook Dto	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s 2.5mm/s		3mm/s			
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s			

Vibration Record

Project Title:	Central	Police Station	Conservation	& Revitalization	n	Project No: W	/P201	24-Mar-2013	to	6-Apr-2013	
			I			I	Ī	<u> </u>			
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3	
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	
19-Jun-2012 ((Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37	
Surveying Date											
24-Mar-2013						Sunday					
25-Mar-2013		0.16	0.54	0.19	0.25	0.15	0.23	0.15	0.17	0.15	
26-Mar-2013		0.36	0.15	0.12	0.35	0.12	0.26	0.15	0.15	0.35	
27-Mar-2013		0.68	0.25	0.23	0.37	0.14	0.36	0.27	0.15	0.25	
28-Mar-2013		0.48	0.30	0.25	0.36	0.25	0.48	0.30	0.28	0.50	
29-Mar-2013	<u> </u>										
30-Mar-2013					Pı	ıblic Holiday					
31-Mar-2013	<u> </u>				10	ione fronday					
1-Apr-2013								_			
2-Apr-2013		0.59	0.13	0.20	0.25	0.15	0.24	0.15	0.19	0.45	
3-Apr-2013		0.25	0.15	0.26	0.37	0.19	0.25	0.15	0.15	0.46	
4-Apr-2013					Pı	ıblic Holiday					
5-Apr-2013		0.15	0.25	0.35	0.20	0.15	0.25	0.26	0.20	0.51	
6-Apr-2013		0.25	0.19	0.16	0.35	0.25	0.15	0.25	0.27	0.46	
Remark											

Shaft Granted Pre-boved H-piles at Block 51 (Arbithnot Wing) WYNDHAM & STREET 11SW-B/R18 11SW-B/R22 BO SUBMISSION (50) 12/1
BO SUBMISSION (01) 03/1:
BO SUBMISSION (01) 03/1:
BO SUBMISSION (17) 03/1:
BO SUBMISSION RV BATCH 1 03/1:
FOR INFROMATION (50) 03/1: 11SW-B/R17-Shiu King The Centrium Court 11SW-B/R23-115W-B/R52 Chief Streetural Engineer for BUILDING AUTRORITY -11SW-B/R24 W BS13-4 13 JUL 2012 - 11SW-B/R53 -11SW-8/R176 ₩13-1/ 11SW-B/R19-B\$1-14 853-8/ 813-4 11SW-B/R174-MONITORING ZONE A 11SW-B/R175-BD SUBMISSION Drawing Status 製腦狀況 Do not take measure/cents o 切的直接位额统上偏径尺寸。 Chock and verify 20 corrections on th 所有尺寸必須在工地批學資金以棄紙 Read this displayed on computation was used at other related displaying.

企業就分享其他近郊者及其它有新疆以一切阅读。 EXISTING SALT WATER MAIN EXISTING STREET LICHTING NO. 33488-AT 11SW-8/R19 11SW-B/R177-EXISTING STREET LIGHTING CABLE 要馬會支票部分有限公司 EXISTING TELECOMMUNICATION DUCT **最終終於國際首都於2016年11月2日** 17月2日 EXISTING FOUL SEWER ROCCO DH19(BS17-11) JRP ARUP EXISTING RETAINING WALL Project WE CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT 11SW-B/R54 Drawing Tale M.E.
MONITORING LAYOUT PLAN BS1-1/BI1-1 PROPOSED BUILDING SETTLEMENT POINTS/TICTMETER RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER 1:3008A1 K.C.L.cs AL Frankrig No. 38 (8) Frank PROPOSED GROUND SETTLEMENT POINTS ₩. PROPOSED UTILITY MONITORING POINTS 2,4 **₩**1-1 PROPOSED VIBRATION MONITORING POINTS CHAPTER ERAC YORY PROPOSED ADDITIONAL ORILLHOLE Motore Participal county Within

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Shaft Grouted Pre-bored H-piles at Block 51)

Monitoring Check Pts.	Trigger Levels				
Montoring Check Fts.	Alert level	Atarm level			
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s		

Vibration Record

Project Title:	Central	Police Station	1 Conservation	& Revitalization	Project No: WP201	17-Feb-2013	to	2-Mar-2013
POINT		VM14-4	VM15-2	VM51-1				
DATE	PD/(m)	mm/s	mm/s	mm/s				
03-Dec-2012	(Initial)	0.14	0.21	0.3				
17-Feb-2013					Sunday			
18-Feb-2013		0.25	0,12	0.25				
19-Feb-2013		0.19	0.21	0.18				
20-Feb-2013		0.15	0.16	0.23				
21-Feb-2013		0.43	0.14	0.13				
22-Feb-2013		0.23	0.20	0.26				
23-Feb-2013		0.33	0.27	0,30				
24-Feb-2013					Sunday			W.
25-Feb-2013		0.27	0.17	0.28				
26-Feb-2013		0.25	0.19	0.13				
27-Feb-2013		0.59	0.56	0.66				
28-Feb-2013		0.36	0.21	0.26				
1-Mar-2013		0.15	0.14	0.62				
2-Mar-2013		0.29	0.10	0.14				
Remarks								

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Shaft Grouted Pre-bored H-piles at Block 51)

Monitoring Check Pts.	Trigger Levels						
Wolldoning Check Fts.	Alert level	A farm level	Action level				
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s				

Vibration Record

Project Title:	Central	Police Station	Conservation	& Revitalization	Project No: WP201	3-Mar-2013	to	16-Mar-2013
POINT		VM14-4	VM15-2	VM51-1				
DATE	PD/(m)	mm/s	mm/s	mm/s				
03-Dec-2012 ((Initial)	0.14	0.21	0.3				
3-Mar-2013					Sunday			
4-Mar-2013		0.26	0.18	0.33				
5-Mar-2013		0.28	0.33	0.14				
6-Mar-2013		0.23	0.47	0.56				
7-Mar-2013		0.46	0.52	0.12				
8-Mar-2013		0.28	0.19	0.66				
9-Mar-2013		0.19	0.26	0.13				
10-Mar-2013					Sunday			
11-Mar-2013		0.21	0.39	0.55				
12-Mar-2013		0.33	0.13	0.42				
13-Mar-2013		0.45	0.15	0.24				
14-Mar-2013		0.61	0.22	0.21				
15-Mar-2013		0.61	0.25	0.44				
16-Mar-2013		0.35	0.35	0.61				
Remarks								

₩₩ 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

(Shaft Grouted Pre-bored H-piles at Block 51)

Manitarina Charle Dto	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s			

Vibration Record

Project Title:	Central	Police Station	n Conservation	& Revitalization	Project No: WP201	17-Mar-2013	to	30-Mar-2013	
POINT		VM14-4	VM15-2	VM51-1					
DATE	PD/(m)	mm/s	mm/s	mm/s					
03-Dec-2012	(Initial)	0.14	0.21	0.3					
17-Mar-2013					Sunday				
18-Mar-2013		0.33	0.19	0.25					
19-Mar-2013		0.22	0.21	0.13					
20-Mar-2013		0.15	0.54	0.34					
21-Mar-2013		0.19	0.46	0.13					
22-Mar-2013		0.54	0.46	0.55					
23-Mar-2013		0.25	0.26	0.54					
24-Mar-2013					Sunday				•
25-Mar-2013		0.15	0.27	0.25					
26-Mar-2013		0.15	0.25	0.25					
27-Mar-2013		0.26	0.15	0.25					
28-Mar-2013		0.18	0.25	0.40					
29-Mar-2013	<u> </u>				Public Holiday				
30-Mar-2013					1 done frontaly				
Remarks									

Mini-piles with post-pressurized grout in CDG and Steel Shear H-piles at Block 1, STREET 11SW-B/R18 11SW-B/R17-Shill King The Centrium CONT 11SW-B/R806 11SW-B/R23-11SW-B/R52 NG Kun-shing Chief Stractoral Engineer for BUILIPHG AUTHORITY 11SW-B/R24 W 1 9 MAR 2012 11SW-B/R53 11SW-B/R19-11SW-B/R174 11SW-B/R175-BD SUBMISSION wing Status 罗斯状识 LEGEND · 的文字是是是是一个一个一个一个 Chara and valify of altremones on sa 有有尺寸必能加工地指揮者非為資訊 STREET LIGHTING NO. 33488-A1 853-2/ 11SW-B/R19-11SW-B/R177 11SW-B/R55 EXISTING LY ELECTRICITY CABLE HERZOG&DEMEURON EXISTING TELECOMMUNICATION DUCT (HIJTCHISON OF OBAL COMMUNICATIONS LAMITED) EXISTING STORMWATER DRAIN ROCCO 许学 EXISTING FOUL SEWER R. JRP ARUP Projec 項註 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT EXISTING DRILLHOLE WITH 11SW-B/R54 STANDPIPE/PIEZOMETER Drawing Tale 整体 MONITORING LAYOUT PLAN 11SW-B/R178 8 PROPOSED BUILDING SETTLEMENT POINTS/THUTMETER RS174-1/RT174-PROPOSED INCLINOMETER TO BE BUILT IN BORIED PILE WALL OR PIPE PILE WALL 1:300**0**A1 K.C.(a) MOIES

JULIES SETLEMENT POINTS (UTI TO UT6)
SHALL ONLY BE INSTALLED AFTER EXCONATION
PERMIT IS OBTAINED, AS ALTERNATIVE.
SETTLEMENT POINTS (ISS AND ISSI) MAY BE
INSTALLED.
SHOULD UTI TO UTI6 BE RESTALLED, ISSIB AND
ISSID SHALL NOT BE REQUIRED.
JETHER UTILITIES SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (USI TO
COMMENCEMENT OF OLD BALLEY WHICE ELS
WORKS. 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS PROPOSED UTILITY MONITORING POINTS PROPOSED VIBRATION MONITORING POINTS MONITORING ZONE A PROPOSED ADDITIONAL DESELHOLE



Monitoring Check Pts.	Trigger Levels						
Monitoring Check Fis.	Alert level	Alarm level	Action love				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
*Vibration at largest span of	5.0mm/s	6.0mm/s	7.5mm/s				
highest Structural level	Promise.	O TOTAL DE	7.5HHD3				

Project Title:	Central F	Police Station	Conservation &	Revitalization	Project No: WP201	17-Feb-2013	to	2-Mar-2013
POINT		VM17-1	VM17-3*				_	
DATE	PD/(m)	mm/s	mm/s					
19-Jun-2012 (Initial)	0.13	0.37					
Surveying Date								
17-Feb-2013					Sunday			1
18-Feb-2013		0.36	0.14					
19-Feb-2013		0.15	0.15					
20-Feb-2013		0.24	0.14					
21-Feb-2013		0.36	0.24					
22-Feb-2013		0.14	0.17					
23-Feb-2013		0.29	0.33					
24-Feb-2013					Sunday			
25-Feb-2013		0.22	0.28					
26-Feb-2013		0.20	0.33					
27-Feb-2013		0.32	0.13					
28-Feb-2013		0.20	0.16					
1-Mar-2013		0.36	0.18					
2-Mar-2013		0.21	0.29					
Remark	* Vibration	n at largest span	of highest structura	l level.				

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Monitoring Check Pts.	Trigger Levels						
Monitoring Check Fts.	Alert level	Alarm level					
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
*Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5 _{mm/s}				

Vibration Record

Project Title:	Central I	Police Station	Conservation & Revitalizat	tion Project No: WP201	3-Mar-2013	to	16-Mar-2013
POINT		VM17-1	VM17-3*				
DATE	PD/(m)	mm/s	mm/s				
19-Jun-2012 (Initial)	0.13	0.37				
Surveying Date							
3-Mar-2013			······································	Sunday			
4-Mar-2013		0.16	0.69				
5-Mar-2013		0.45	0.19				
6-Mar-2013		0.35	0.72				
7-Mar-2013		0.12	0.25				
8-Mar-2013		0.19	0.19				
9-Mar-2013		0.15	0.26				
10-Mar-2013				Sunday			
11-Mar-2013		0.13	0.33				
12-Mar-2013		0.25	0.13				
13-Mar-2013		0.15	0.12				
14-Mar-2013		0.89	0.22				
15-Mar-2013		0.54	0.19				
16-Mar-2013		0.35	0.15				
Remark	*Vibration	at largest span	of highest structural level.				



Monitoring Check Pts.	Trigger Levels						
Monitoring Check Fts.	Alert level	Alarm level	Action level				
Vibration Monitoring	2mm/s	3mm/s					
Vibration at largest span of	5.0mm/s	6.0mm/s	7.5mm/s				
highest Structural level	5.011111/8	o.onmi/s	7.511111/8				

Project Title:	Central	Police Station	Conservation a	& Revitalization		Project No: W	P201	17-Mar-2013	to	30-Mar-2013		
POINT		VM17-1	VM17-3									
DATE	PD/(m)	mm/s	mm/s									
19-Jun-2012 ((Initial)	0.13	0.37									
Surveying Date												
17-Mar-2013						Sunday						
18-Mar-2013		0.29	0.13									
19-Mar-2013		0.19	0.13									
20-Mar-2013		0.15	0.32									
21-Mar-2013		0.16	0.39									
22-Mar-2013		0.48	0.35									
23-Mar-2013		0.24	0.30									
24-Mar-2013						Sunday						
25-Mar-2013		0.15	0.15									
26-Mar-2013		0.15	0.35									
27-Mar-2013		0.27	0.25									
28-Mar-2013		0.30	0.50									
29-Mar-2013	1				Pul	blic Holiday						
30-Mar-2013					1 u	one monday						
Remark												

Vibration Monitoring Locations for Trial Pile near Block 17 WYNDHAM 8 STREET 11SW-BVA68 No. #281 Description [2879] Date EL991

- BD SUBMISSION 07/11

A TENDER DRAWING 08/11

B TENDER ADDENDUM 09/11

C BD RE-SUBMISSION 09/11 Shiu King The Centrium -11SW-B/R21 -- 115W-3/CR56 Court NG Kir-shing Chief Structural Engineer for BUILDING AUTHORITO 1 7 NOV 2011 - 1°SW-B/R53 TP33 LEGEND EXISTING BOREHOLE (DONE BY OTHERS) BD SUBMISSION EXISTING TRIAL PIT (DONE BY OTHERS) Drawing Status 製圖狀況 EXISTING COREHOLE (DONE BY OTHERS) of relevant consultants. 本關紙及其內容的版權案有關顧問公司所有。 PROPOSED OLD BALLEY WING (OBW) EXISTING DRILLHOLE (DONE BY OAP) relevant consustants. 未提有關鎖特公司書面同意。不将模型此圖版內任何 也發出時計 - Do not take measurements dracely from this drawing 切を直接役置級上線度尺寸。 EXISTING TRAL PIT (DONE BY OAP) (IO-BE/SUPPORTED BY SHAFT-GROUTED PRE-BOARD H-PILES) Check and verify all cimensions or site 所有尺寸必須在工地現場複查及客核 EXISTING HORIZONTIAL/INCLINED COREI-OLE (DONE BY OAP) Read this drawing in conjunction with the specifications and all other related drawings.
此國領必須民張裕設明書及其它有韓國銀一件閱讀。 EXISTING P-VALD (TO BE SUPPORTED BY SHAFT-GROUTEL DH2D(S,P) MINI-PILES) EXISTING VERTICAL COREHOLE (DONE BY CAP) Notify the relevant consultants immediately of any discrepancy found herein 如發現內各有任何課認之處。應立刻遵算有關額關公司 Client 進丰 EXISTING INCLINED DRILLHOLE (DONE BY CAP) HERZOG & DE MEURON TRIAL PILE (SHAFT-GROUTED PREBORED H-PILE) ⊕ TP-H1 HILD COLD BY THE PROPERTY OF T TRIAL PILE (SHAFT-GROUTED MINI-PILE) OTP-W1 ROCCO PROPOSED BUILDING SETTLEMENT POINTS/ TILIMETER (BS1/BT1 TO BS7/BT7) E & M Engineer PROPOSED GROUND SETTLEMENT POINTS (GS1 TO GS8) JRP ARUP PROPOSED VIBRATING MONITORING (VM1 TO VM12) (DURING PILE CONSTRUCTION CNLY) Project 単目 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION EXISTING SALT WATER MAIN Drawing Title MEZ
LAYOUT PLAN FOR SHAFT
GROUTED PILE FOUNDATION EXISTING STREET LIGHTING NO. 33488-A1 EXISTING STREET LIGHTING CABLE (TRIAL PILE & MONITORING) EXISTING HV ELECTRICITY CABLE K.C.Lai TRIAL PILE SCHEDULE F/005 TENTATIVE (UNDING LEVEL (mPD) -6.82 INTERFACE LEVEL
BETWEEN COLLUVIUM
AND CDG(mPD)
+44.00 EXISTING TELECOMMUNICATION DUC HUTCHISON GLOBAL COMMUNICATION LIMITED)
EXISTING STORMWATER DRAIN +55.70 T) 150 EXISTING FOUL SEWER 833881 815774 +55.70 +56.49 +44.00 +22.22 TP-M2 833876 815820 +50.00 +50.79 +34.00 +12.56 38.23 PROPOSED FOUL SEWER

Cod file : 209674_F005.dwg

195 :5 cd b1 d35 1102

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Manitarina Chash Dta	Trigger Levels						
Monitoring Check Pts.	Alert level	Alarm level	Action level				
Vibrating Monitoring	5mm/s	6mm/s	7.5mm/s				

Vibration Record

Project Title	oject Title: Central Police Station Conservation & Revitalization								Project No: WP201 10-Mar-20			r-2013	to 23-N		Mar-2013	
				ı							ı					
POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s							
2-Apr-2012 (Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
11-Jan-2013		0.22	0.20	0.13	0.17	0.15	0.13	0.14	0.21	0.18 —	0.23	0.17	0.25	0.13	0.12	0.14
12-Jan-2013		0.20	0.24	0.14	0.12	0.12	0.24	0.10	0.19	0.17	0.28	0.15	0.14	0.11	0.12	0.26
16-Jan-2013		0.16	0.14	0.15	0.13	0.14	0.14	0.14	0.14	0.12	0.17	0.14	0.15	0.24	0.72	0.15
23-Jan-2013		0.15	0.15	0.25	0.29	0.30	0.14	0.15	0.13	0.27	0.14	0.14	0.22	0.13	0.09	0.13
30-Jan-2013		0.63	0.15	0.14	0.14	0.16	0.14	0.38	0.15	0.14	0.13	0.13	0.20	0.14	0.15	0.10
6-Feb-2013		0.24	0.21	0.34	0.22	0.11	0.14	0.21	0.18	0.23	0.17	0.25	0.17	0.16	0.18	0.29
14-Feb-2013		0.15	0.31	0.36	0.19	0.17	0.28	0.15	0.14	0.28	0.23	0.29	0.30	0.14	0.15	0.22
21-Feb-2013		0.23	0.29	0.30	0.22	0.15	0.17	0.36	0.40	0.11	0.19	0.17	0.28	0.15	0.14	0.34
28-Feb-2013		0.17	0.24	0.28	0.33	0.36	0.40	0.20	0.19	0.26	0.24	0.19	0.39	0.40	0.15	0.30
7-Mar-2013		0.30	0.25	0.10	0.20	0.29	0.16	0.11	0.26	0.37	0.34	0.11	0.20	0.18	0.16	0.21
14-Mar-2013		0.11	0.17	0.22	0.23	0.15	0.30	0.15	0.28	0.29	0.34	0.16	0.27	0.31	0.23	0.29
21-Mar-2013		0.18	0.22	0.23	0.29	0.40	0.37	0.34	0.18	0.26	0.50	0.26	0.39	0.41	0.28	0.30
27-Mar-2013		0.13	0.14	0.14	0.14	0.17	0.36	0.40	0.11	0.19	0.15	0.24	0.72	0.15	0.17	0.25
3-Apr-2013		0.29	0.30	0.14	0.15	0.40	0.20	0.19	0.26	0.24	0.22	0.13	0.09	0.13	0.23	0.29

Annex M

Records of Vibration Monitoring for Other Construction Works



恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

Monitoring Check Pts,	Trigger Levels				
Montoring Check 1 is,	Alert level	Alarm level	Action level		
Vibrating Menitoring	2mm/s	2.5mm/s	3mm/s		

Vibration Record

Project Title	: Central	Police Station	1 Conservation	& Revitalizati	on Proje	ect No: WP201	24-Feb-2013	to	9-Mar-2013
POIN	7	VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136				
24-Feb-2013						Sunday			
25-Feb-2013		0.17	0.17	0.30	0.27				T
26-Feb-2013		0.23	0.10	0.28	0.25				
27-Feb-2013		0.13	0.19	0.55	0.59				
28-Feb-2013		0.27	0.40	0.26	0,36				
1-Mar-2013		0.16	0.51	0.24	0.15				
2-Mar-2013		0.19	0.15	0.30	0.29				1
3-Mar-2013						Sunday			
4-Mar-2013		0.55	0.39	0.16	0.26				T
5-Mar-2013		0.33	0.66	0.16	0.28				-
6-Mar-2013		0.54	0.43	0.57	0.23				
7-Mar-2013		0.14	0.25	0.64	0.46				
8-Mar-2013		0.55	0.36	0.13	0.28				
9+Mar-2013		0.33	0.51	0.91	0.19				
Remarks									

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Monitoring Check Pts.	Trigger Levels					
	Alert level	Alarm level	Action level			
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s			

Vibration Record

Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201	10-Mar-2013	to	23-Mar-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (I	nitial)	0.103	0.112	0.147	0.136				
10-Mar-2013						Sunday			
11-Mar-2013		0.17	0.23	0.19	0.21				
12-Mar-2013		0.23	0.28	0.13	0.33				
13-Mar-2013		0.25	0.53	0.18	0.45				
14-Mar-2013		0.13	0.25	0.55	0.61				
15-Mar-2013		0.23	0.19	0.19	0.61				
16-Mar-2013		0.56	0.25	0.25	0.35				
17-Mar-2013						Sunday			
18-Mar-2013		0.33	0.21	0.64	0.33				
19-Mar-2013		0.35	0.16	0.32	0.22				
20-Mar-2013		0.25	0.32	0.36	0.15				
21-Mar-2013		0.46	0.25	0.13	0.19				
22-Mar-2013		0.17	0.15	0.46	0.54				
23-Mar-2013		0.26	0.25	0.20	0.25				
Remarks									

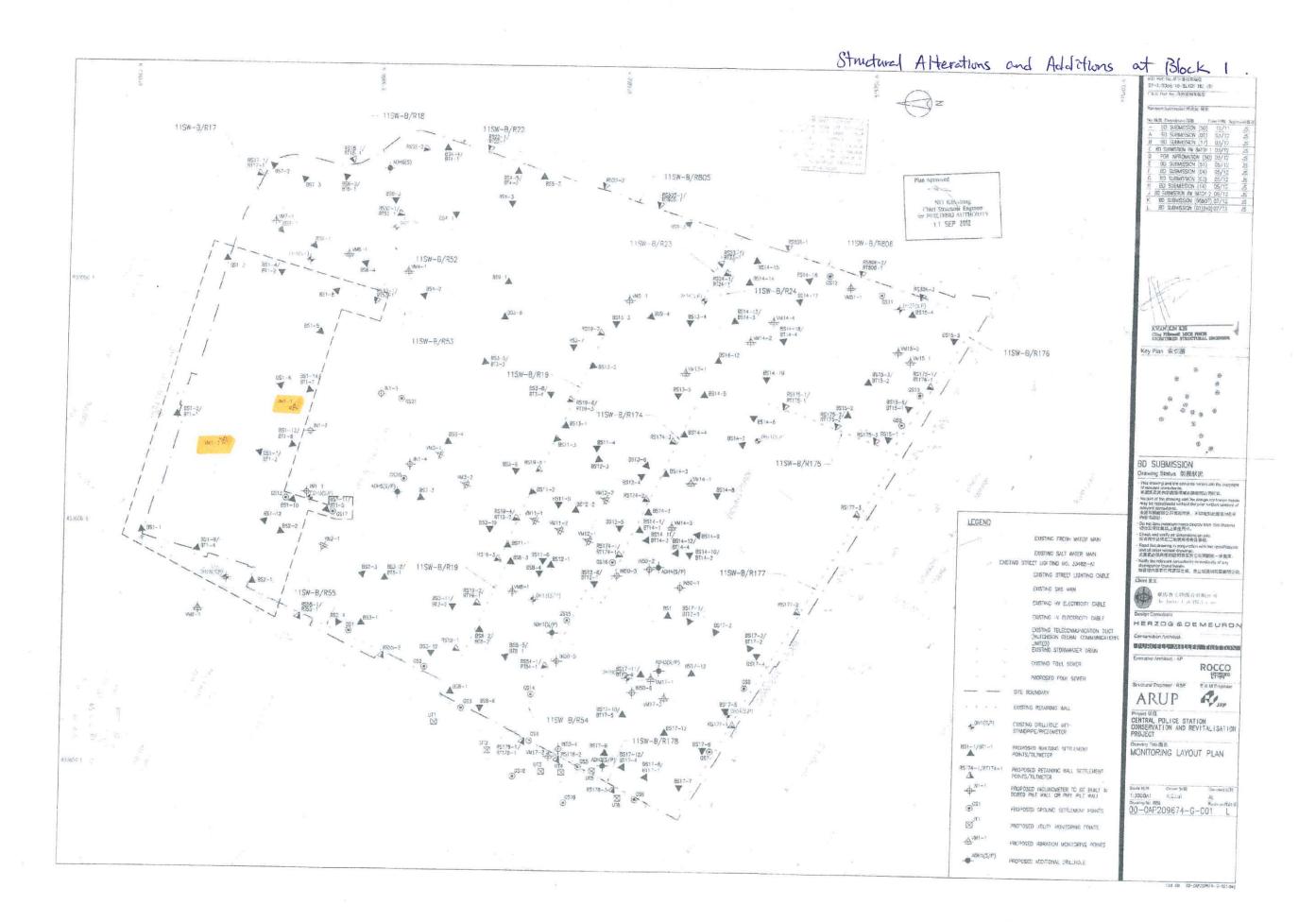
₩₩ 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

Manitarina Chash Dta	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s			

Vibration Record

Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Projec	et No: WP201	24-Mar-2013	to	6-Apr-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (I	nitial)	0.103	0.112	0.147	0.136				
24-Mar-2013						Sunday			
25-Mar-2013		0.15	0.13	0.23	0.15				
26-Mar-2013		0.17	0.12	0.26	0.15				
27-Mar-2013		0.15	0.15	0.36	0.26				
28-Mar-2013		0.12	0.20	0.48	0.18				
29-Mar-2013 30-Mar-2013									
31-Mar-2013	1				Pı	ıblic Holiday			
1-Apr-2013									
2-Apr-2013		0.27	0.19	0.24	0.21				
3-Apr-2013		0.15	0.25	0.25	0.13				
4-Apr-2013					Pu	ıblic Holiday			
5-Apr-2013		0.30	0.15	0.25	0.25				
6-Apr-2013		0.30	0.29	0.15	0.19				
Remarks									





Monitoring Check Pts.	Trigger Levels						
Montoring Check 148.	Alert level	Alarm level	Action level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s				

Centi	Central F	Police Stat	tion Conserva	tion & Revita	lization	Project No: V	WP202 (Block 1)	21-Feb-2013	to	6-Mar-2013
	,	VM1-1*	VM1-2*							
D/(m)	D/(m)	mm/s	mm/s							
al)	al)									
		0.491	0.272							
		0.496	0.217							
		0.495	0.186							
				Sunday						
		1.400	0.805							
		0.151	0.249							
		0.108	0.453							
		0.544	0.192							
		0.319	0.281							
		0.323	0.244							
				Sunday						
		0.767	0.166							
		1.590	0.640							
		0.694	0.309							

Remarks: * same as WP107

Prepared by : Wong Wing Xee



Monitoring Check Pts.	Trigger Levels						
Wontoffing Check 1 ts.	Alert level	Alarm level	Action level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s				

roject Title: Cen	tral Police Sta	tion Conserva	tion & Revitalization	Project No: WP202 (Block 1 A&A	7-Mar-2013	to	20-Mar-201
POINT	#VM1-1*	#VM1-2*					
DATE	mm/s	mm/s					
11-12-12 (Initial)	0.132	0.698					
07-Mar-13	1.620	0.370					
08-Mar-13	0.247	0.108					
09-Mar-13	0.205	0.150					
10-Mar-13			Sunday				
11-Mar-13	0.880	0.321					
12-Mar-13	0.174	0.171					
13-Mar-13	0.364	0.139					
14-Mar-13	0.230	0.119					
15-Mar-13	0.272	0.353					
16-Mar-13	1,240	0.214					
17-Mar-13		_	Sunday				
18-Mar-13	0.273	0.283					
19-Mar-13	0.520	0.427					
20-Mar-13	0.286	0.284			- 100		<u> </u>

Remarks: * same as WP107

Vibration at largest span of highest structural level

Prepared by : Wong Wing Yee



Monitoring Choole Dto	Trigger Levels					
Monitoring Check Pts.	Alert level	Alarm level	Action level			
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s			
# Vibration at largest span of	5.0 mm/s	6.0mm/s	7.5mm/s			
highest Structural level	J.0111111/8	0.0111111/8	7.311111178			

Project Title: Cent	ral Police Sta	tion Conserva	ation & Revitalization	Project No: WP202 (Block 1 A&A 21-Mar-2013 to 3-Apr-				
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
21-Mar-13	0.128	0.131						
22-Mar-13	0.214	0.285						
23-Mar-13	0.196	0.202						
24-Mar-13				Sunday				
25-Mar-13	0.334	0.180						
26-Mar-13	0.329	0.163						
27-Mar-13	0.286	0.094						
28-Mar-13	0.178	0.251						
29-Mar-13				Holiday				
30-Mar-13				Holiday				
31-Mar-13				Sunday				
01-Apr-13				Holiday			·	·
02-Apr-13	0.178	0.251						
03-Apr-13	0.116	0.112						

Remarks: * same as WP107

Vibration at largest span of highest structural level

Prepared by: Wong Wing Yee

Strengthening and Structural Alteration Works at Block 8. WYNDHAM # STREET ReviewScienter Erik (St.) Mo WELL Description (AMS) Dute UNIV. Approved To - BD SUBMISSION 12/11 JS SEL OROR TOWNTURAN Shiu King Cont 11SW-8/R805 11SW-B/R23-Chief Streetural Engineer for HULDING AUTHORITY 20 FEB 2012 R553-17 -11SW-B/R247 - 11SW-B/R53 11SW-B/R19 BSI4 5 YOMFORING ZOINE BY GRELTICALS 115W-B/R174 # DH21(S,P) VV1-2 11SW-B/R175 BD SUBMISSION Drawing Status 製質狀況 This ground and the contains before are the of interest consisted.

*ZMENOTSHEED ATTENDED INT. THE THE CONTRACT TO STATE OF THE STATE OF T LEGEND Osmi use removement brooty White EEEE LERRI. Crack and worlly all demonsters on six 終行尺寸的位置性配写性的压度器法。 - Read first frameng on conjunction with the specificate and all other reliand drawings 最終医之初日政府は明春世月セル区企業一リスト EET LIGHTING NO. 33488-A1 Company found forms LOSEASTHER COLL. EDITARTEDES 853-2/ 11SW-B/R1 11SW-B/R177-EXISTING STREET LIGHTING CABLE PADH4(S/P) RUNZBERNINZU the Jocker Clab COS Civillad 11SW-B/R55-HERZOG & DE MEURON EXISTING TELECOMMUNICATION DUCT Consecration Authors **単位引送(6) 4 年間(33) 4月 4 (3) 2 (6) 2** ROCCO 许字 PROPOSED FOUL SEWER R JRP ARUP 11SW-8/R54 DUSTING RETAINING WALL Projectived
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION
PROJECT STANDPAPE/PREZOWETER MONITORING LAYOUT PLAN MUICA J. H. MILLIS SETTION OF TRINGS (ALT) A MICA MILLISH OF ANY OF ALTERNATOR SETTION OF THE MICA SET BS1-1/B11-1 PROPOSED BUILDING SETTLEMENT POINTS/TICTIMETER RS174-1/RT174-PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTIMETER MAY BE INSTALLED Scale IESS Drawn SE 1:3000A1 K.C.Loi STATED WIT TO UTO, BE WELLDED,
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STATED SELFCONT TO SELFCONT THE WELLD SELFCONT TO SELFCONT THE WELLD SELFCONT SELFCONT SELFCONT SELFCONT TO SELFCONT TO SELFCONT SELFCONT TO SELFCON PROPOSED INCLINOUETER TO BE GITT IN TECTED FILE WALL OF PIPE FILE WITCH ОО-ОАР209674-G-001 OCS) PROPOSED GROUND SETTLEMENT PORTS PROPOSED LITERTY MONITORING POINTS OF OLD BALLY INFIGERS WIEKS PROPOSED VERATION MONITORING PORTS PROPOSED ADDITIONAL DRILLHOLE

Cod Ge : 00-04/205574-G-001.640

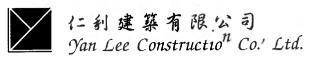


Monitoring Check Pts.	Trigger Levels								
Monitoring Check Lts.	Alert level	Alarm level							
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s						

Pr	oject Title:	Central Pol	lice Station (onservation	ı & Revit	alization	Pr	Project No: WP203 Date: 27-01-2013 To 09-02-2013									
POINT		VM8-1	VM11-1	VM11-2													
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	
23-Apr-12 (Initial)	0.212	0.087	0.116													
24-Feb-2013			0		?			Sunday									
25-Feb-2013		0.26	0.24	0.16													
26-Feb-2013		0.2	0.5	0.3													
27-Feb-2013		0.13	0.33	0.28													
28-Feb-2013		0.22	0.27	0.31						1							
1-Mar-2013		0.18	0.15	0.25													
2-Mar-2013		0.33	0.24	0.16													
3-Mar-2013							•	Sunday		-		en v				-	
4-Mar-2013		0.22	0.31	9.13													
5-Mar-2013		0.13	0.22	0.21													
6-Mar-2013		0.15	0.17	0.35													
7-Mar-2013		0.24	0,25	0.75													
8-Mar-2013		0.13	0.25	0,55													
9-Mar-2013		0.25	0.36	0.13													

Prepared by : Cheung Wai Ching (Leveller)

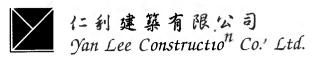




Monitoring Check Pts.	Trigger Levels								
Monitoring Check Pts.	Alen level	Alam level	Action level						
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s						

I	Project Title: Central Police Station Conservation & Revitalization Project No: WP203 Date: 10-03-2013 To 23-03-2013															
POIN	T	VM8-1	VM 11-1	VM11-2												
DATE	PD /(m)	mm/s	mm/s	mm/s	mm/s	m m/ s	mm/s	m m/ s	mm/s	m m/ s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-12 ((Initial)	0.212	0.087	0.116												
10-Mar-2013								Sunday								
11-Mar-2013		0.23	0.22	0.13												
12-Mar-2013		0.13	0.25	0.19												
13-Mar-2013		0.23	0.14	0.61												
14-Mar-2013		0.13	0.25	0.13												
15-Mar-2013		0.61	0.28	0.33												
16-Mar-2013		0.25	0.35	0.72												
17-Mar-2013								Sunday								
18-Mar-2013		0.21	0.13	0.61												
19-Mar-2013		0.31	0.12	0.26												
20-Mar-2013		0.18	0.21	0.35												
21-Mar-2013		0.25	0.28	0.16												
22-Mar-2013		0.32	0.14	0.34												
23-Mar-2013		0.25	0.54	0.28												

Prepared by : Cheung Wai Ching (Leveller)



Monitoring Check Pts.	Trigger Levels								
Monitoring Check Pts.	Alen level	Alam level	Action level						
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s						

Project Title: (Central Polic	e Station C	onservation	tion	Project No: WP201 Date: 24-Mar-2013 To 06-Apr-2013											
POIN	Γ	VM8-1	VM11-1	VM11-2												
DATE	PD /(m)	mm/s	mm/s	mm/s	mm/s	m m/ s	mm/s	m m/ s	mm/s	m m/ s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-12 (Initial)	0.212	0.087	0.116												
24-Mar-2013								Sunc	lay							
25-Mar-2013		0.16	0.54	0.19												
26-Mar-2013		0.36	0.15	0.12												
27-Mar-2013		0.68	0.25	0.23												
28-Mar-2013		0.48	0.30	0.25												
29-Mar-2013								Holid	lay							
30-Mar-2013								Holid	lay							
31-Mar-2013								Sunc	lay							
1-Apr-2013								Holid	lay							
2-Apr-2013		0.59	0.13	0.20												
3-Apr-2013		0.25	0.15	0.26												
4-Apr-2013		•	•		•		•	Holid	lay				•			•
5-Apr-2013		0.15	0.25	0.35												
6-Apr-2013		0.25	0.19	0.16												

Prepared by : Mok Ka Fung (Leveller)